



MCM ELECTRONICS

A PREMIER Company

\$2.00

CATALOG 25

W I N T E R ■ 1 9 9 0

- More Than 1100 New Products
- Over 16,000 Items
- Introducing **FLUKE** 
ungar  
- Expanded Line of
Original Replacement Parts
- More Than 3,000 **RCA**  Parts
(pages 8-11)
- All Products Are Stocked
- Technical Assistance Available
- Representantes Hispanos Disponibles
- Orders Shipped Within 24 Hours
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to 8:00 p.m. EST
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to 5:00 p.m. EST

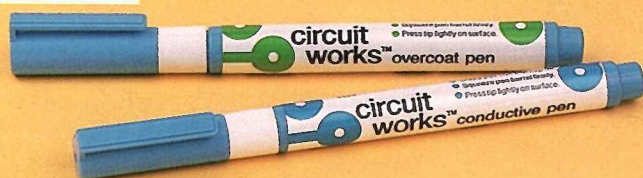
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In Canada Call Toll Free 1-800-824-9491

MCM ELECTRONICS

C A T A L O G

NEW



circuit works™ Conductive and Overcoat Pens

Use the Conductive Pen where electronic traces are needed or to repair circuit boards. Use the Overcoat Pen to insulate components, traces and repairs on circuit boards. **For more details see page 46.**



PYLE

Pounders and Weather-Resistant Speakers

Pyle Pounders heavy duty polymer laminate woofers and computer designed speaker enclosures, produce true rock-solid bass with explosive clarity! Pyle weather-resistant speakers are ideal for boats, automotive, outdoor patio and other applications requiring a rugged high performance coaxial speaker. **For product listings see page 143.**

NEW

NEW



Video Service Aids

These tapes are an excellent addition to any service library. The instruction provided will assist the novice as well as the experienced technician with VCR repair techniques and tips. **For more details see page 109.**

Technics™

ZENITH

MITSUBISHI

Panasonic

FISHER

Emerson

SONY

JVC

SANYO

NEW

MCM Carries Original Replacement Parts

In addition to our full line of genuine RCA/GE replacement parts, MCM stocks many original JVC, Panasonic, Sanyo/Fisher, Technics, Mitsubishi and Sony replacement parts for VCRs, camcorders, CD players and microwave ovens! **For more information on these items refer to pages 104, 105 and 173.**

TENMA

Offers You The Proven Choice In Test Equipment For The 90s!

NEW

Introducing MCM's new line of Tenma oscilloscopes. These oscilloscopes are feature-packed to aid you in the service and calibration of today's sensitive electronic equipment. Now you can select either a 20, 40 or 60MHz Tenma oscilloscope to meet your needs! **For a complete listing of specifications and features see pages 12 and 13.**





WELCOME TO MCM ELECTRONICS

MCM Electronics is a broadline distributor of replacement parts and components used in the installation and repair of video, audio, VCR, communication, computer, security, and related electronic equipment.



"I just got in my order from you folks and wanted to let you know it was perfect. Thanks for the good service!"

Ron Bosse
Caribou, ME

"We shall continue to do business with MCM whenever possible. It is also pleasing to hear that everything ordered is "in stock" (in 99% of the case) and on its way. MCM is great!"

Robert DeVries
Milwaukee, WI

"I place orders with many different companies and yours is the most efficient to order from. Everyone that I have spoken with has been extremely helpful. All around, we are very pleased with the services you have provided us. Your employees make my not so pleasant ordering job a much easier one."

Maura Sauer
Williamsville, NY

"Of any company from which we order, MCM Sales Representatives are the most customer oriented. I always look forward to placing orders with them."

Rin Groff
Kenmore, NY

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Use MCM for all your electronic parts needs



ORDERING/SHIPPING

Your Call to MCM is FREE!...

... whether you're placing an order or require Customer Service assistance.

To place an order, or for questions about an order you have placed call the **SALES DEPARTMENT 1-800-543-4330**

In Canada, call 1-800-824-9491

In Dayton, Ohio call 434-0031 and ask for the Sales Department

Sales Hours: Monday-Friday: 7:00 A.M. - 8:00 P.M. (EST)
Saturday: 9:00 A.M. - 5:00 P.M. (EST)

If you're ordering by **FAX**, call 1-513-434-6959
To place an order **after hours**, call 1-800-543-4330

Efficient Customer Service Assistance

In the event there is a discrepancy in your order or if you have any questions about the status of your order, just give our Sales Department a TOLL-FREE call. PLEASE HAVE YOUR INVOICE CLOSE AT HAND WHEN CALLING.

How to return merchandise to MCM

- 1: Call the Sales Department and request an RA (Return Authorization) number, which is **valid for 30 days**.
- 2: Place the original package inside another shipping carton, along with a copy of your invoice and a brief explanation of why the merchandise is being returned.
Do not mark on the original container or use as a shipping carton.
- 3: Print the RA number legibly on the *outside* of the outer shipping carton in bold, visible letters.
- 4: Send the package to: MCM Electronics
2582 East River Road
Moraine, Ohio 45439



Notes About Returned Merchandise:

- Freight collect or C.O.D. returns *cannot* be accepted.
- Parts received by MCM without an RA number or copy of the invoice may be returned to you C.O.D. for freight charges incurred or held for processing until it has been determined that the return was made for justifiable reasons.
- A 15% restocking charge will be imposed on *parts* returned due to customer error. A 20% restocking charge will be imposed on *test equipment* returned due to customer error.
- All parts must be returned with all accessories enclosed.
- In order to receive a credit or refund, parts must be returned **within 60 days**. Any incorrect orders must be reported **within 30 days**.



Choose Your Method of Payment

With MCM, you can choose from four convenient methods of payment to suit your needs. Company checks are acceptable, **but personal checks are not.**

NOTE: There will be a \$17.50 service charge for all checks returned to MCM... plus legal fees if action is required.

C.O.D.—is the quickest and most convenient method preferred by the majority of our Customers. **NOTE:** IF YOUR ORDER TOTALS OVER \$300.00, CASH OR A CERTIFIED CHECK WILL BE REQUIRED AT THE TIME OF DELIVERY AND YOU WILL BE NOTIFIED OF THIS REQUIREMENT PRIOR TO RECEIPT OF SHIPMENT.

Payment In Advance when mailing in your order will eliminate the UPS C.O.D. charge of \$3.30. Please include a minimum of \$3.40 for processing and shipping costs. Minimum order amount is \$20.00. **NOTE:** If your actual shipping charges total more than \$3.40, the extra amount will be billed to you C.O.D. If your order totals over \$300.00, please send a money order or certified check.

MasterCard and VISA orders are welcomed. Please have your card close at hand when ordering by phone since we will require certain specific information **each time** we process your order. **NOTE:** The minimum credit card order is \$25.00.

Open Account Orders are accepted for open account billing from well-rated firms within the United States only. Firms without a published rating may apply for credit by submitting trade and bank references. Terms of payment are net 30 days. Past due accounts are subject to a late payment charge of 1.5% per month.

MINIMUM ORDER AMOUNTS:

C.O.D.'s, Checks or Open Accounts: \$20.00 minimum*

MasterCard or VISA: \$25.00 minimum*

NO ORDERS UNDER THESE AMOUNTS CAN BE ACCEPTED.

*DOES NOT INCLUDE SHIPPING AND HANDLING.

NOTE: ALL ORDERS ARE ENTERED AT THE TIME OF PLACEMENT.

Special Notes...

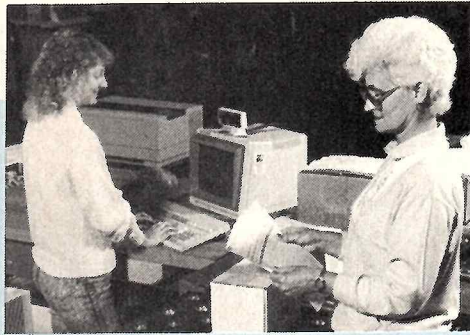
Sales Tax—Due to strict regulations, certain states require that sales tax be charged on all orders where a valid exempt certificate is not on file with MCM Electronics. Please refer to your own local taxing authority for further information and copy of exemption form.

Prices—The prices shown in this catalog reflect the latest information available at the time the catalog was printed. However, changing market conditions may necessitate price adjustments. Use the published catalog prices as a guide. Prices are Net FOB Shipping Point and do not include Federal, State or Local Taxes. If you have a question about pricing, ask your MCM Sales Representative.



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IN CANADA CALL TOLL FREE
1-800-824-9491



Choose Your Shipping Method

Most MCM orders are shipped by UPS. In addition to UPS, special shipping methods are available—no matter what your location. For more information, call the MCM Sales Department TOLL-FREE.

Shipping Charges

UPS C.O.D.: \$3.30 C.O.D. charge + UPS chart rate (based on package weight and shipping zone) + \$1.95 handling

MasterCard and VISA: UPS chart rate + \$1.95 handling

UPS Net 30: UPS chart rate + \$1.95 handling

Prepaid Orders: Include a minimum of \$3.40. International customers must include \$9.25.

U.S. Mail: Postal rate + \$1.95 handling + C.O.D. charge if applicable

Reshipments

If UPS returns a package to MCM that could not be delivered due to customer error and you would like this package reshipped, you will be assessed a \$5.00 reshipment charge. If the return was due to our error, there will be no additional reshipment charge.

Important Backorder Information

NOTE: Only items valued at \$10.00 or more will be automatically backordered. If the value of your item is under \$10.00, it will show on your invoice as being "temporarily out of stock" and you may reorder the item at a later date, if you choose. In the event that an item is backordered, it will be indicated in the backorder column of your invoice. Any backordered items will be shipped to you as soon as we receive them from the manufacturer. No backorders will be cancelled unless requested. Your part will ship as soon as stock arrives to fill your order. You will pay the chart or postal rate and the \$3.30 C.O.D. charge (if applicable). No handling fee will be charged. All backorders will be sent by the same method as the original shipment.

Warehouse Order Pick-Up

Ordering

All orders should be called in to our Sales Office (434-0031) prior to your arrival at the Will Call Office. Please inform your Sales Representative of your form of payment.

Payment

Net-30: Two forms of identification will be required and a P.O. may be requested.

Check: Identification will be necessary. Any order over \$300.00 will require Cash or Certified Check.

MasterCard or Visa: The Sales Representative will need your credit card information when you place your order; and you must present your MasterCard or Visa at the Pick-Up Window.

Returns

60 days for credit or refund. 90-day warranty on product replacements unless otherwise stated in the catalog. If you are returning merchandise to the Pick-Up area, you will be required to present your invoice. We are unable to give cash refunds, but you will be issued a check through the mail in 7-10 days. Exchanges can only be made on same part number.

PICK-UP ADDRESS

MCM Electronics
2582 East River Road
Moraine, Ohio 45439

PICK-UP HOURS

8:00 A.M. -5:00 P.M.
Monday-Friday

International Sales and Service

Pricing

Prices are Net FOB Shipping Point and do not include Federal, State, or Local Taxes. Orders are filled at the prices in effect on the date of shipment. Please contact MCM Electronics to obtain current prices.

Export Terms of Sale

Shipments are on the basis of C.I.F. (Port of Entry) or named Port of Destination. MCM Electronics will prepay the costs, insurance and freight to bring the goods to the named Port of Destination and the final invoice will include such charges. Export orders requiring special handling, packaging and documentation are subject to additional charges.

Payment Terms

MCM Electronics export orders are accepted on the basis of Payment in Advance of Shipment in U.S. funds by check, wire transfer, international money order, credit card, or cablegram. Include a minimum of \$9.25 with all prepaid orders, to cover international shipping and handling.



A Nuestros Clientes Latino Hispanos

Nuestra compañía está en la mejor disposición de ayudarles. Actualmente contamos con recursos para tomar sus órdenes en español, ya sea por escrito o por teléfono. Las horas más convenientes de llamar serían de 8:30 am a 5:30 pm (EST) de lunes a viernes.

Canadian Customers

Canadian customers can also take advantage of Toll-Free ordering by calling 1-800-824-9491. Payment options include company check, MasterCard/VISA, or Net 30. Checks must be drawn on a U.S. bank, in U.S. dollars. Orders are primarily shipped UPS, but additional options can be discussed with a Sales Representative. Please allow at least seven working days for your order to be processed. **Note:** Include a minimum of \$9.25 with all prepaid orders, to cover international shipping and handling charges. If this is not sufficient for the weight of your order, you will be notified. For larger orders, please contact a Sales Representative for shipping charges.



Warranty and Disclaimer

Since the vendor, MCM Electronics, does not control the use of its products, there are no express warranties which extend beyond the description on the face hereof. SELLER DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. Since Seller cannot control the manner or use of its products after their sale, Seller will not be responsible for any consequential or indirect damages. Concerning products for which Seller is acting as only a distributor of products manufactured by other companies, Seller expressly limits its liabilities to any guarantees extended by the manufacturer, which guarantees Seller will pass through to the customer. Further, Seller will, at its option either replace the goods sold or refund the purchase price. No warranties will apply if the goods are in any way altered or modified after delivery by Seller.

Note: When returning merchandise, please place the original package inside of a shipping carton. Do not use the original container as a shipping carton.

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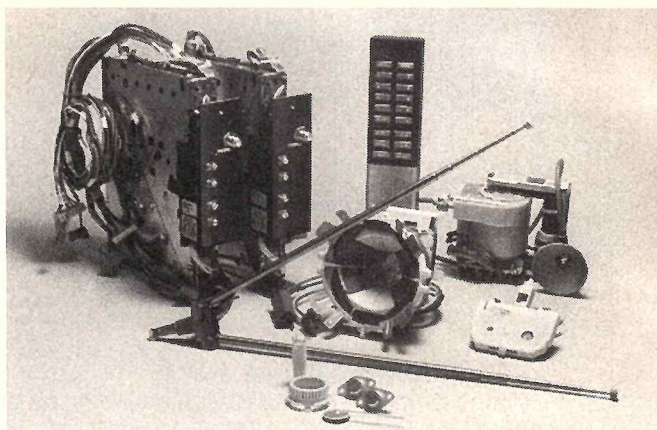


RCA/GE Replacement Parts

Now you can order Original RCA/GE replacement parts as conveniently as any of the other fine products in the MCM catalog. Our in-depth stock and fast shipping help you provide quick service for RCA and GE repairs. Below we have listed some of the most popular RCA/GE replacement parts. In addition MCM stocks over 3,000 RCA/GE parts! Call our friendly sales staff toll free with your RCA/GE requirements and discover the MCM difference.



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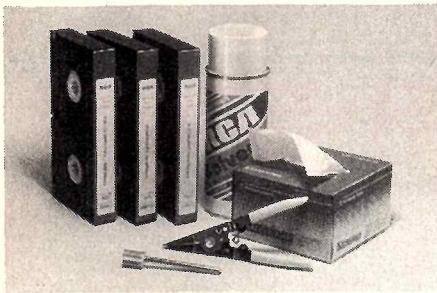


Part #	Description
129095	DIODE
131346	TRANSISTOR
131347	THYRISTOR
133455	MAN002A MODULE
135696	RESISTOR
135871	MAG001B MODULE
137361	RESISTOR
137762	THERMISTOR
138015	CAPACITOR
138117	MODULE PHOTO
138749	RESISTOR
140003	RESISTOR
142285	MOD MCK002A/B
142348	RELAY
142569	DIODE
142603	RESISTOR
142655	RESISTOR
142678	CAPACITOR
142704	MDS001A MODULE
142705	MDG001A MODULE
142706	MDC001A MODULE
142709	MDR001A MODULE
142840	MDL002A MODULE
142911	RESISTOR
143447	MDH001B MODULE
143704	IHVT
143732	IHVT
143741	RESISTOR
143810	IHVT
143822	IC
143834	COIL
143914	TRANSFORMER
144207	GEAR
144389	SCREWDRIVER
144395	PLIERS
144418	BAND
144590	GREASE
145163	RELAY
145174	IC
145256	MDL001B MODULE
145261	MCH001B MODULE
145381	MAGNET
145648	TRANSISTOR
145660	DIODE
145718	TRIPLER
145722	IHVT
145723	RESISTOR
145870	SOLVENT
145871	CLOTH
146169	SPARK GAP
146302	ITR
146356	TRIPLER
146372	MST005A MODULE
146382	TRANSMITTER
146786	KIT
146823	TRANSISTOR
146847	TRANSISTOR
146849	TRANSISTOR
146857	IC
146858	IC KIT

Part #	Description
146863	KIT-DIODE
146998	MCR011A MODULE
147213	DIODE
147639	CIRCUIT FILTER
148044	SWITCH
148446	IC
148580	IDLER
148597	ARM
148664	BELT
148809	BAND
148862	RESISTOR
148909	IHVT
148913	RESISTOR
148935	PLATE
148964	TRANSISTOR
148998	TRANSISTOR
148999	TRANSISTOR
149000	CARTRIDGE
149251	SCR
149253	IC
149259	CAPACITOR
149389	LAMP
149438	COVER
149449	MSC006A MODULE
149516	RESISTOR
149556	IHVT
149693	MCR016RA MODULE
149702	MSC012RA MODULE
149703	MSC013RA MODULE
149749	SWITCH
149873	IHVT KIT
150078	CIRCUIT
150191	WINDOW
150346	TRANSFORMER
150369	IC
150513	TRANSISTOR
150614	IDLER
150650	IDLER
150704	IC
150706	IC
151532	TRANSMITTER
151692	MUV007RA MODULE
152051	IC
152422	ARM
152426	MOTOR
152434	ROLLER
152474	RESISTOR
152674	IDLER
152683	IDLER
152688	ROLLER
152706	BAND
152770	IHVT
153093	INFRARED CARD
153094	MST008RA MODULE
153173	IHVT
153327	IC
153351	IC
153429	SWITCH
153444	IC
153664	RESISTOR

Part #	Description
153669	MST010RA MODULE
153671	CAPACITOR
153678	TRANSISTOR
153684	IC
153764	HEAD KIT
153837	SWITCH
153875	IC KIT
154216	CARTRIDGE
154225	IC
154282	TRANSMITTER
154493	IHVT KIT
154494	IHVT KIT
154515	IC KIT
154602	ARM
155129	IC
155221	MOTOR
155222	GEAR
155360	IHVT
155372	CIRCUIT
155373	CIRCUIT
155619	IHVT KIT
155700	CIRCUIT
155701	MSC025A MODULE
155739	IDLER
155775	BAND
156387	MCY005B MODULE
156388	TRANSMITTER
156516	TRANSMITTER
156537	MST007RF MODULE
156581	IC
156594	IC
156678	BELT
156679	BELT
156684	HEAD KIT
156918	IC
157019	CIRCUIT
157042	HEAD
157053	BELT
157056	GEAR
157061	BELT
157062	BELT
157064	BELT
157065	BELT
157068	DIODE
157420	RELAY
157766	MOTOR
157815	IC
158047	IHVT KIT
158190	IDLER
158205	MOTOR
158672	IHVT
158732	IHVT
158796	MODULE
158890	CIRCUIT BOARD
159268	MST027A MODULE
159269	SWITCH
159433	IC
159582	IC
159764	TRANSFORMER
159802	TRANSMITTER

Part #	Description
159826	HEAD KIT
159930	TRANSMITTER
159948	IC
159971	CIRCUIT
160026	MOTOR
160082	TRANSISTOR
160083	TRANSISTOR
160087	IC
160088	IC
160089	IC
160101	IHVT
160110	TRANSFORMER
160238	RESISTOR
160244	MECHANISM
160311	IHVT
160377	IHVT KIT
160649	HEAD
160692	CHASSIS
160763	IC
160788	CIRCUIT
160818	MOTOR
160826	HEAD
160837	IC
160879	IC
161141	TRANSMITTER
161667	HEAD
161748	IC
161757	TRANSISTOR
162285	CIRCUIT
162662	IDLER
162962	MOTOR
163286	SWITCH
163397	CIRCUIT
163729	TRANSFORMER
163774	HOLDER
163795	IC
163818	CIRCUIT KIT
163838	CIRCUIT
163872	MOTOR
163879	BELT
163880	BELT
163883	HEAD KIT
163886	CIRCUIT
163895	BELT
163896	BELT
163924	IC
163926	IC
163932	INDICATOR
163974	MST007RD MODULE
164023	CIRCUIT
164089	CLUTCH
164113	ARM
164116	TRANSISTOR
164118	CIRCUIT
164137	MTT001A MODULE
164257	CIRCUIT
164343	IC
164394	CIRCUIT
164581	IHVT
164589	DIODE



If you don't see the part
you need — call!

Part #	Description
164590	DIODE
164599	TRANSISTOR
164600	IC
164615	HOLDER
164707	CIRCUIT
164719	MSC026D MODULE
164729	MSC027B MODULE
164816	CABLE
173082	IC
173117	IC
173245	CAPACITOR
173306	CIRCUIT
173494	BOX
173566	KRK252SA TUNER
173916	TRANSMITTER
174183	IC
174376	IC
174757	BELT
174759	BELT
174771	HOLDER
175296	TRANSFORMER
175297	IHVT
175442	CAPACITOR
175673	CAP
175722	IC
176152	AC031
176154	TRANSISTOR
176187	IC
176213	CONNECTOR
176222	IC
176223	IC
176342	MTT004A MODULE
176343	MTT005A MODULE
176344	MTT008A MODULE
176827	SWITCH
176853	IC
176854	IC
176864	SWITCH
176904	MTT006A MODULE
176912	MAGNET KIT
177099	IC
177100	IC
177103	IC
177106	IC
177107	IC
177185	CIRCUIT
177197	MOTOR
177206	PLATE
177208	BELT
177213	MOTOR
177222	HEAD KIT
177337	MICROPHONE
177387	IC
177411	CIRCUIT
177412	HOLDER
177423	TRANSMITTER
177583	TRANSMITTER
177619	IC
177683	CIRCUIT
177791	TRANSISTOR
177796	RESISTOR
177857	IC
177994	TRANSMITTER
178350	TERMINAL
178359	CIRCUIT

Part #	Description
178441	HEAD
178442	HEAD
178515	IC
178558	MTT002B MODULE
178592	CAPACITOR
179277	CAPACITOR
179278	MSC011B MODULE
179320	IC
179421	IC
179472	TRANSMITTER
179585	CIRCUIT
179726	IC
179728	IC
179732	IC
179733	IC
179743	TRANSISTOR
179901	IC
180140	CAPACITOR
180339	TRANSMITTER
180393	TRANSMITTER
180817	IC
180831	IC
180850	HEAD
180851	IC
180876	IC
180887	IC
180926	CONVERTOR
181044	TRANSMITTER
181094	TRANSFORMER
181158	CIRCUIT
181202	MOTOR
181203	ROLLER
181836	IC
181991	IC
182401	CIRCUIT
182421	CIRCUIT
182709	CIRCUIT
182759	IC
182826	TRANSFORMER
182879	TRANSMITTER
182888	MOTOR
184523	CASE
185065	CABLE
185119	TRANSFORMER
185235	IC
185453	IC
186523	HEAD
186566	TRANSFORMER
186583	IC
186658	IC
186774	IC
187282	HOLDER
187551	TRANSMITTER
187632	MOTOR
187802	CABLE
187812	CAPACITOR
187896	TRANSMITTER
187986	TRANSMITTER
187987	TRANSMITTER
188127	CIRCUIT
188130	REMOTE CONTROL
188859	MOTOR
189292	CONVERTOR
189424	IC
189608	CRT

Part #	Description
189853	IC
190129	TRANSMITTER
190234	IC
190483	TRANSISTOR
190611	IC
190665	CAP
190784	HOLDER
191142	TRANSISTOR
191148	TRANSFORMER
191149	CIRCUIT
191173	ZOOM RING
191295	IC
191333	PANEL
191379	TRANSMITTER
191385	CIRCUIT
191872	HEAD
192204	YOKE
192242	IDLER
192275	IC
192407	TRANSMITTER
192543	CIRCUIT
192901	IC
192904	IC
192905	IC
192907	COIL
192949	TRANSMITTER
193000	TRANSMITTER
193080	TRANSFORMER
193081	TRANSFORMER
193082	IC
193084	IC
194216	CIRCUIT
194220	CIRCUIT
194306	PANEL
194320	SCR
194330	TRANSMITTER
194350	TRANSISTOR
194496	BRACKET
194883	180931/180935 KIT
195143	IC
195541	CIRCUIT
195545	CONVERTOR
195552	IC
195686	BASE
195687	CIRCUIT
195735	TRANSFORMER
195739	CIRCUIT
196305	TRANSMITTER
196614	REMOTE TRANSMITTER
196634	IC
197347	HEAD
197581	CIRCUIT
198497	COIL
199095	VCR BELT KIT
199332	VCR BELT KIT
199333	VCR BELT KIT
199334	VCR BELT KIT
199335	VCR BELT KIT
199336	VCR BELT KIT
199337	VCR BELT KIT
199341	BELT KIT
199343	MAINTENANCE KIT
199344	MAINTENANCE KIT
199345	MAINTENANCE KIT
199346	MAINTENANCE KIT

Part #	Description
199347	BELT KIT
1CUA135	BATTERY
200130	REMOTE
BK0548	BACK
CB120	CAMCORDER BATTERY
EA33X8856	IC
EA41X0739	REED RELAY
EP14X0113	THERMISTOR
EP14X0297	RESISTOR
EP15X0105	TRANSISTOR
EP15X0217	THYRISTOR
EP15X0230	TRANSISTOR
EP25X0075	CAPACITOR
EP41X0130	RELAY
EP49X0160	CONTROL
EP62X0085	RESISTOR ENDCAP
EP62X0111	HYB CIRCUIT
EP62X0151	FOCUS RESISTOR
EP62X0167	SHUT MODULE
EP62X0208	TRANSMITTER
EP62X0209	TRANSMITTER
EP77X0030	HV TRANSFORMER
EP77X0035	HV TRANSFORMER
EP77X0045	HV TRANSFORMER
EP77X0056	TRANSFORMER
EP77X0070	TRANSFORMER
EP84X0082	IC
EP84X0109	IC AUDIO AMP
EP84X0215	IC JUNGLE
EP84X0216	IC SOUND
EP84X0221	IC CHROMA
EP84X0222	CIRCUIT
EP88X0047	TRANSFORMER
EP93X0103	VERTICAL MODULE
EP93X0237	CIRCUIT
EP93X0240	AUDIO BOARD
EP93X0289	ASM CONTROL
EP93X0290	ASM CONTROL
EP93X0514	POWER BOARD
EP93X0521	SWEEP BOARD
EP93X0541	TUNER CIRCUIT BOARD
EP93X0566	CIRCUIT BOARD
EP93X0575	TUNER
EW02X0643	MAIN IDLER
EW39X0141	SWITCH MODE
EW58X0002	BATTERY
EW62X0079	RF CONVERTOR
EW62X0206	VHF BLOCK
EW62X0234	MICROPHONE
EW72X0042	CASSETTE MOTOR
EW72X0056	REEL MOTOR
EW72X0081	MOTOR LOAD
EW72X0083	MOTOR LOAD
EW77X0006	TRANSFORMER
EW77X0019	TRANSFORMER
EW77X0027	TRANSFORMER
EW77X0034	TRANSFORMER
EW84X0492	IC
EW84X0618	CIRCUIT
EW84X0619	IC
EW84X0769	MN15846URG3
EW84X0791	IC
EW84X0927	IC
EW93X0469	SYSTEM BOARD
EW97X0300	FRONT CABINET
MK0721	MASK



SK REPLACEMENT SEMICONDUCTORS

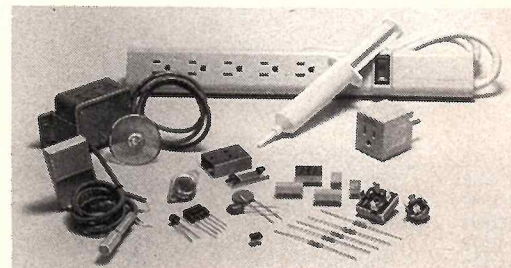
SK Series Replacement Semiconductors

The SK series of consumer and industrial solid state devices are backed by original manufacturer production standards and premium specifications. Tested to use specifically as replacements for solid-state devices in original equipment, each SK transistor, triac, SCR, rectifier, integrated circuit, thyristor or microprocessor can be used to replace a broad variety of devices used in electronic equipment. Electrical characteristics are equal to, or better than, originally specified components. Below we have listed some of the most popular SK replacements along with their ECG equivalent. In addition, MCM stocks over 3000 RCA/GE parts! Call our friendly sales staff toll-free with your SK series replacement semiconductor needs!

RCA's SK Series Replacement Guide

RCA's SK series replacement guide is a valuable information source on over 206,000 solid state replacements, using 2,500 SK and KH replacements. The SK guide covers all types of replacements including, transistors, rectifiers, microprocessors, resistors, linear integrated circuits, COS/MOS integrated circuits, thyristors, opto-isolators, hardware and accessories. Contains over 1000 ECG and 600 GE replacements.

#SKG202F \$4⁰⁰ (ea.)



SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent
KH3400	209	SK3079	162	SK3452	108	SK36A	5037A	SK3961	393
KH3414	—	SK3083	197	SK3463	601	SK36V	5085A	SK3965	974
KH3424	405	SK3087	109	SK3465	778A	SK36X	5143A	SK3966	2060
KH3431	439	SK3090	109	SK3466	159	SK3710	238	SK3973	988
KH3444	435P20	SK30A	5035A	SK3467	283	SK3715	—	SK3985	5312
KH3481	—	SK30V	5084A	SK3479	—	SK3717	—	SK3986	5313
SK10A	5019A	SK3100	519	SK3502	5513	SK3718	—	SK3988	5315
SK10V	140A	SK3103A	396	SK3506	5652	SK3721	100	SK3995	386
SK110X	5157A	SK3111	165	SK3509	5695	SK3747	157	SK3997	254
SK11A	5020A	SK3112	312	SK3514	941	SK3756	—	SK3998	558
SK11V	5074A	SK3114A	290A	SK3523	—	SK3832	1231	SK3A6	5006A
SK11V5	141A	SK3115	165	SK3525	724	SK3834	312	SK3V0	5065A
SK11X	5126A	SK3122	289A	SK3527	—	SK3836	—	SK3V6	134A
SK12V	142A	SK3124A	289A	SK3529	—	SK3839	155	SK3V9	5067A
SK13A	5022A	SK3130	506	SK3533	5635	SK3841	294	SK4001B	4001B
SK13V	143A	SK3133	164	SK3539	908	SK3846	—	SK4009VB	4049
SK14V	144A	SK3158	797	SK3541	914	SK3849	293	SK40106B	40106B
SK150A	5055A	SK3180	263	SK3542	904	SK3854	123AP	SK40107B	—
SK15A	5024A	SK3191	185	SK3559	—	SK3860	265	SK40109B	—
SK171	5202AK	SK3192	186	SK3569	834	SK3863	600	SK4011B	4011B
SK180X	5164A	SK3195	311	SK3570	5643	SK3864	605A	SK4013B	4013B
SK18A	5027A	SK3197	236	SK3574	5554	SK3866A	31	SK4020B	4020B
SK18V	5077A	SK3199	188	SK3575	5554	SK3867A	32	SK4024B	4024B
SK18X	5133A	SK3200	189	SK3582	5545	SK3870	HI DIV-3	SK4035B	4035B
SK2004	3004	SK3207	818	SK3583	5651	SK3882	821	SK4041UB	4041
SK2008	3008	SK3212	1175	SK3585	5952	SK3891	829	SK4044B	4044B
SK2035A	3035A	SK3219	198	SK3591	960	SK3893	152	SK4047B	4047B
SK2041	3041	SK3220	198	SK3592	966	SK3896	261	SK4049UB	4049
SK2048	3048	SK3232	191	SK3593	968	SK3906	528	SK4053B	4053B
SK2049	3049	SK3244	287	SK3595	989	SK3911	18	SK406	—
SK2071	3071	SK3245	199	SK3598	5457	SK3912	19	SK4063B	4063B
SK2075	3075	SK3247	234	SK3606	5944	SK3914	1465	SK4069UB	4069
SK20V	5079A	SK3250	315	SK3621	328	SK3917	1115A	SK4077B	4077
SK20X	5135A	SK3253	295	SK3625	—	SK3929	375	SK4081B	4081B
SK2116	3116	SK3255	815	SK3626	—	SK3930	398	SK411	—
SK230	5232A	SK3260	284	SK3627	5404	SK3931	90	SK43V	5087A
SK24A	5031A	SK3261	175	SK3629	309K	SK3932	91	SK4511B	4511B
SK25V	5082A	SK3274	153	SK3633	5626	SK3936	271	SK4572UB	—
SK2A5	5001A	SK3297	280	SK3634	5444	SK3945	327	SK4585B	4585B
SK2A7	5002A	SK3299	237	SK3638	—	SK3947	388	SK4814	878
SK2V7	5063A	SK3302	533	SK3639	5814	SK3949	248	SK4909	2315
SK3003A	102A	SK3306	523	SK3642	179	SK3950	5400	SK4V3	5068A
SK3004	102A	SK3312	116	SK3643	987	SK3955	5415	SK4X3	5114A
SK3006	160	SK3313	116	SK3647	167	SK3960	392		
SK3007A	158	SK3318A	506	SK3648	168				
SK3009	121	SK3322	—	SK3657	5566				
SK3012	105	SK3356	107	SK3659	56006				
SK3017B	116	SK3357	186A	SK3660	56008				
SK3018	316	SK3359	281	SK3662	56024				
SK3024	128	SK3360	280MP	SK3663	56026				
SK3027	130	SK33A	5036A	SK3666	5605				
SK3032A	125	SK33V	147A	SK3670	972				
SK3036	181	SK3433	287	SK3675	971				
SK3037	181(2)	SK3438	—	SK3676	5305				
SK3039	316	SK3439A	163A	SK3689	978				
SK3051	156	SK3440	291	SK3692	928M				
SK3054	196	SK3441	292	SK3693	—				
SK3072	712	SK3444	123A	SK3699	958				



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SK REPLACEMENT SEMICONDUCTORS



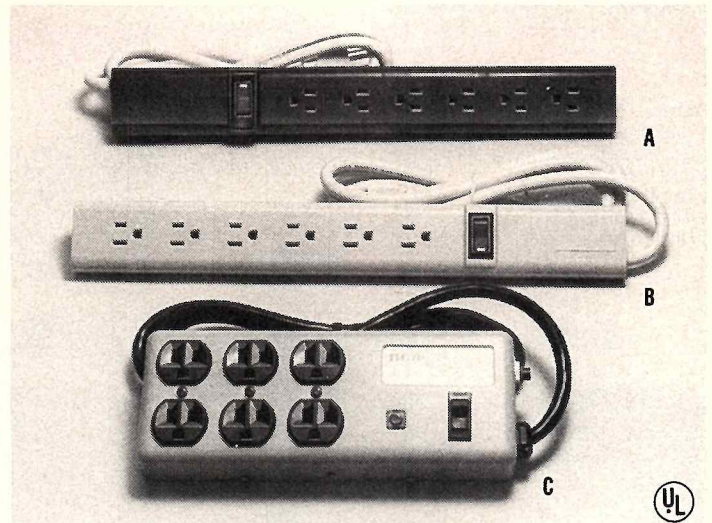
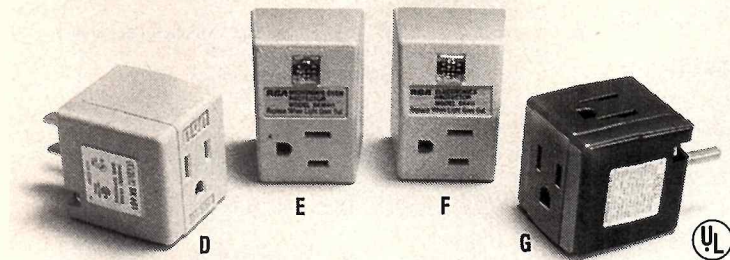
SK Series Surge Suppressors

RCA's array of Surge Suppressors includes models with or without built-in EMI (electro-magnetic interference) and RFI (radio frequency interference) filtering. EMI and RFI filters greatly reduce electronic noise transmitted through powerlines which can interfere with performance.

Surge Suppressor and Interference Filter Cross Reference Chart

RCA Model No.	SK406	SKF406	SK416	SK401	SKM411	SK411	SK403	SKF416
No. of Outlets	6	6	6	1	1	1	3	6
Indicator Lamp	X	X	X		X	X		X
On/Off Switch	X	X	X					X
Protected by Metal Oxide Varistor*	X	X	X	X	X	X	X	X
EMI/RFI Noise Filtering		X						X
Figure	A	B	C	D	E	F	G	—

*Absorbs more surge than other-type suppressors.



SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent	SK Part #	ECG# Equivalent
SK5014	—	SK7483	7483	SK876	8125	SK9216	957	SK9409	—
SK5016	—	SK74LS02	74LS02	SK900	8149	SK9226	1117	SK9413	36
SK5020	—	SK74LS08	74LS08	SK9000	552	SK9229	85	SK9415	37
SK5028	5329	SK74LS10	74LS10	SK901	8213	SK9230	5332	SK9421	—
SK5031	5311	SK74LS14	74LS14	SK9011	—	SK9231	5332	SK9422	2302
SK5032	580	SK74LS221	74LS221	SK9016	1416	SK9233	5334	SK9423	40
SK5036	580	SK74LS241	74LS241	SK9031	284	SK9234	331	SK9431	—
SK5040	—	SK74LS257	74LS257	SK9033	60	SK9237	87	SK9432	319P
SK5050	—	SK74LS258	74LS258	SK9034	61	SK9239	88	SK9437	273
SK5060	6240	SK74LS26	74LS26	SK9037	5317	SK9249	1550	SK9439	248
SK5237	5437	SK74LS30	74LS30	SK9039	386	SK9252	1288	SK9442	46
SK534	5252A	SK74LS367	74LS367	SK9041	373	SK9260	39	SK9454	25
SK5545	5645	SK74LS73	74LS73	SK9042	374	SK9264	—	SK9455A	172A
SK5556	5656	SK74LS86	74LS86	SK9046	1419	SK9278	—	SK9458	—
SK55V	—	SK74S04	74S04	SK9067	931	SK9286	5819	SK9459	47
SK5A1	5010A	SK75V	5093A	SK9075	166	SK9293	5465	SK9460	458
SK5X6	5117A	SK74X	5152A	SK9085	379	SK9294	5466	SK9463	—
SK62V	—	SK7606	1650	SK9089	832	SK930	8242	SK9466	—
SK62X	5150A	SK7633	1656	SK9091	177	SK9305	548	SK9467	—
SK6624	—	SK7637	1509	SK9093	2013	SK9317	—	SK9476	2300
SK6654	5554	SK7642	1928	SK9096	5814	SK9320	1532	SK948	8167
SK6707	5608	SK7643	1930	SK9116	241	SK9328	358	SK9482	2314
SK6724	5574	SK7653	1676	SK9118	375	SK9331	1914	SK9489	2329
SK68V	5092A	SK7665	1387	SK9119	89	SK9333	970	SK9501	2388
SK6A2	5013A	SK7676	1547	SK9120	—	SK9339	970	SK9503	—
SK6A8	5014A	SK7681	1570	SK9123	6401	SK9341	933	SK9505	—
SK6V0	5070A	SK7692	868	SK9124	6409	SK9342	934	SK9507	2383
SK6V2	—	SK7703	1732	SK9131	2311	SK9344	935	SK9508	—
SK6V8	5071A	SK7705	1725	SK9132	—	SK9352	399	SK9509	67
SK7075	6075	SK7709	—	SK9136	180	SK9354	1401	SK9634	361
SK7110	5910	SK7718	873	SK9137	382	SK9357	2079	SK9711	—
SK7179	5879	SK7730	810A	SK9138	383	SK9359	1738	SK9748	—
SK7254	6054	SK7731	860	SK9139	10	SK9364	56	SK9808	—
SK7260	6060	SK7739	1934	SK9142	192	SK9365	68	SK9840	24
SK7356	6156	SK7740	1936	SK9143	193	SK9367	55	SK9A1	5018A
SK7362	5962	SK7789	1271	SK9146	937	SK9368	324	SK901	139A
SK7366	5966	SK7805	1567	SK9157	312	SK9370	—	SKF426	—
SK7400	7400	SK7807	954	SK9160	462	SK9374	—	SKM411	—
SK7401	7401	SK7808	1377	SK9164	451	SK9379	1545	SKMV115B	1V115
SK7405	7405	SK7812	722	SK9165	2388	SK9381	844	SKMV130H	1V030
SK74109	74109	SK7C138	—	SK9166	938	SK9382	845	SKMV130K	524V13
SK74145	74145	SK82A	5047A	SK9170	951	SK9383	850	SKMV14B	1V014
SK74151	74151	SK832	8081	SK9172	997	SK9384	1231A	SKMV150K	524V15
SK74157	74157	SK841	8090	SK9173	948	SK9390	—	SKMV15C	2V015
SK74160	74160	SK847	8096	SK9182	1289	SK9391	—	SKMV17C	2V017
SK7430	7430	SK859	8108	SK9188	1479	SK9394	1294	SKMV20C	2V020
SK7437	7437	SK866	8115	SK9194	1471	SK9397	955S	SKMV30C	2V030
SK7445	7445	SK869	8118	SK9201	996	SK9408	—	SKMV373A	—

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TEST EQUIPMENT

TENMA™

Introducing the new Tenma oscilloscope line. Increased bandwidth, new features and high quality design and manufacturing make Tenma oscilloscopes an even better value.

TENMA™ 60MHz Oscilloscope

Today's electronic circuitry demands higher bandwidth oscilloscopes than ever before. The #72-760 combines a 60MHz bandwidth with features like delayed sweep and dual time base to make it a valuable troubleshooting tool for servicing VCRs, computers and other complex electronic products.

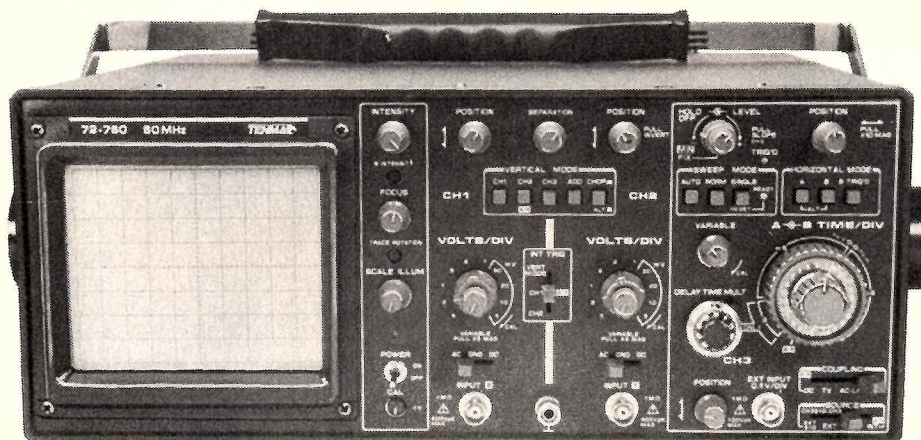
Features:

- Three channel-eight trace operation
- Delayed sweep with multi-turn control
- Dual time base
- Two 10:1 probes included
- Illuminated graticule
- Front panel trace rotation

Specifications:

Vertical Deflection:

- Deflection factor: (CH1, CH2) 5mV/div-5V/div (X1), 1mV/div-1V/div (X5) 10 ranges in 1-2-5 step with fine control. (CH3) 0.1V/div (fixed)
- Bandwidth: (X1) DC, DC-60MHz (-3dB); AC, 10Hz-60MHz (-3dB); (X5) DC, DC-15MHz (-3dB); AC, 10Hz-15MHz (-3dB)
- Input impedance: 1Mohm $\pm$ 2%, 25pF $\pm$ 3pF



2 YEAR LIMITED WARRANTY

Horizontal Deflection:

A sweep:

- Sweep mode: A, ALT, B, B triggered
- Sweep time: 0.05 μ sec-0.5sec/div 22 positions in 1-2-5 step
- Hold off time: Two times or over (0.5 μ sec to 10msec/div)

B sweep:

- Delay system: Continuous or triggered delay
- Sweep time: 0.05 μ sec-50msec/div 19 positions in 1-2-5 step

Ch 3 sweep:

- Ext, triggered input signal used as sweep trigger signal
- Sensitivity: 0.1V, 1V/div
- Frequency characteristics: DC-2MHz (-3dB)

X-Y Mode

- X axis: CH 1; Y axis: CH 2
- Sensitivity: 5mV-5V/div
- Frequency characteristics: DC, DC-2MHz (-3dB); AC, 10Hz-2MHz
- X-Y phase difference: DC-100KHz; less than 3 degrees

Triggering:

- Trigger source: INT, LINE, EXT, EXT/10
- Trigger coupling: AC, HF REJ, TV, DC
- Trigger mode: AUTO, NORM, SINGLE
- Level preset: 10MHz, 1div

General:

- Accelerating potential: 12KV
- Calibration signal: 1KHz squarewave (1V peak to peak)
- Power requirements: AC; 110V/220V, 50/60Hz, 40W
- CRT size: 5 $\frac{7}{8}$ " rectangular
- Dimensions: 14"(W) x 5 $\frac{3}{4}$ "(H) x 15"(D)
- Weight: 22 lbs.

#72-760.....\$799⁹⁵ (ea.)

TENMA™ 40MHz Oscilloscope

The Tenma #72-740 offers features not normally found on an oscilloscope in this price range. Delayed sweep, dual time base and 12KV of accelerating potential make this an outstanding value.

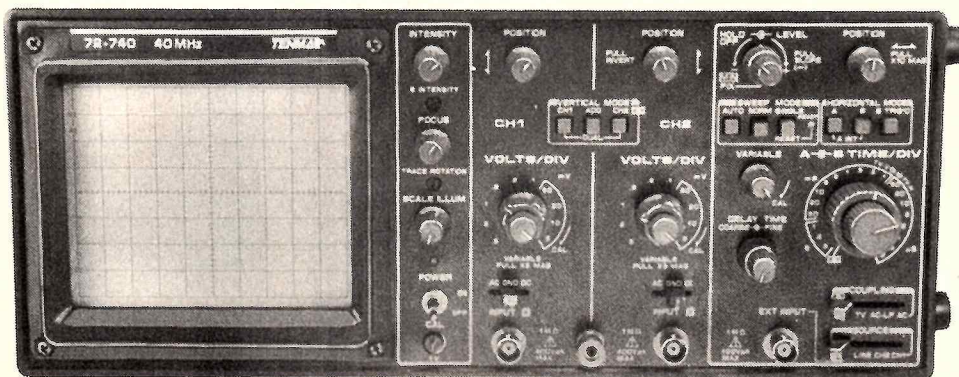
Features:

- Delayed sweep
- Dual time base
- Two 10:1 probes included
- 12KV accelerating potential
- Illuminated graticule
- Front panel trace rotation

Specifications:

Vertical Deflection:

- Deflection factor: 5mV/div-5V/div (X1), 1mV/div-1V/div (X5); 10 ranges in 1-2-5 step with fine control



2 YEAR LIMITED WARRANTY

- Bandwidth: (X1) DC, DC-40MHz (-3dB); AC, 5Hz-40MHz (-3dB); (X5) DC, DC-10MHz (-3dB); AC, 5Hz-10MHz (-3dB)
- Input impedance: 1Mohm $\pm$ 2%, 25pF $\pm$ 3pF

Horizontal Deflection:

A sweep:

- Sweep mode: A, ALT, B, B triggered
- Sweep time: 0.2 μ sec-0.5sec/div in 1-2-5 step

B sweep:

- Delay system: Continuous or triggered delay
- Sweep time: 0.2 μ sec-0.5msec/div in 1-2-5 step

X-Y Mode

- X axis: CH 1; Y axis: CH 2
- Sensitivity: 5mV-5V/div
- Frequency characteristics: DC, DC-1MHz (-3dB); AC, 5Hz-1MHz
- X-Y phase difference: DC-100KHz; less than 3 degrees

Triggering:

- Trigger source: INT, LINE, EXT, EXT/10
- Trigger coupling: AC, HF REJ, TV, DC
- Trigger mode: AUTO, NORM, SINGLE

General:

- Accelerating potential: 12KV
- Calibration signal: 1KHz squarewave (1V peak to peak)
- Power requirements: AC; 110V/220V, 50/60 Hz, 40W
- CRT size: 5 $\frac{7}{8}$ " rectangular
- Dimensions: 13 $\frac{3}{8}$ "(W) x 5 $\frac{7}{16}$ "(H) x 14 $\frac{11}{16}$ "(D)
- Weight: 20 lbs.

#72-740.....\$599⁹⁵ (ea.)



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TENMA™ Dual Trace 20MHz Oscilloscope with Component Tester

Our contemporary styling and quality construction combine to make our most popular oscilloscope an even better value. Specifications include 5mV/div. sensitivity and a frequency characteristic response with a smooth roll-off exceeding 20MHz.

The component tester is a valuable troubleshooting tool that gives a visual display of the characteristics, value and condition of resistors, capacitors, inductors and diodes; in or out of circuit.

Features:

- Component tester
- Two 10:1 probes included
- High brightness CRT with internal graticule
- 5x horizontal magnifier
- TV video sync filter
- Front panel electrical trace rotation
- Owners manual included

Specifications:

Vertical Deflection:

- Deflection factor: 5mV-20V/div. on 12 ranges, in 1-2-5 step with fine control
- Bandwidth: DC: DC-20MHz (-3dB), AC: 10Hz-20MHz (-3dB)
- Overshoot: Less than 3%
- Input impedance: 1Mohm shunted by 20pF ± 3pF
- Maximum input voltage: 600V peak to peak or 300V (DC + AC peak)
- Operating modes: CH-A, CH-B, DUAL and ADD
- Chop frequency: 200KHz
- Channel separation: Better than 60dB at 1KHz
- CH-B polarity: CH-B can be inverted

Horizontal Deflection:

- Deflection factor: 5mV-20V/div. on 12 ranges, in 1-2-5 step with fine control
- Frequency response: DC-1MHz (-3dB)
- Input impedance: 1Mohm shunted by 20pF ± 3pF
- Maximum input voltage: 300VDC + AC peak of 600V peak to peak

- X-Y operation: X-Y mode is selected by sweep time/div. switch
- Intensity modulation: Z axis: TTL level (3V peak to peak) + bright-dark
- Time Base:**
- Type: Automatic and triggered. In automatic mode, sweep is obtained without input signal.
- Sweep time: 2μsec-.5sec/div. on 20 ranges, in 1-2-5 step with fine control
- Magnifier: 5x on all ranges
- Linearity: Less than 3%

2 YEAR LIMITED WARRANTY

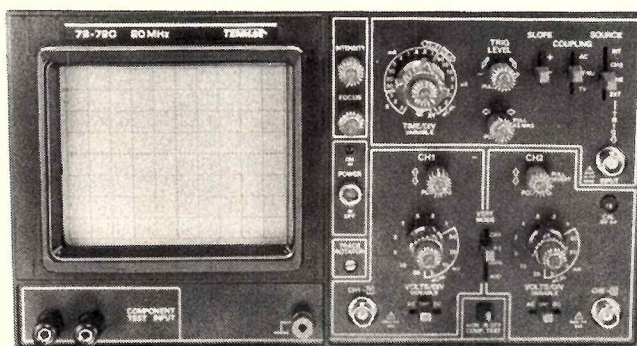
Triggering:

- Sensitivity: INT: 1 div. or more, EXT: 1V peak to peak or more
- Source: INT, CH-B, Line or EXT
- Triggering level: Positive and negative, continuously variable level control pull for auto
- Range: 20Hz-20MHz
- Sync: AC, HF rej, TV (each + or -). At TV sync TV-H (line) and TV-V (frame) sync are switched automatically by sweep time/div. switch. TV-V: .5sec/div. - 1msec/div. TV-H: 50μsec/div. - 2μsec/div.

General:

- Accelerating potential: 2KV
- Calibration voltage: 0.5V peak to peak ± 5%, 1KHz square wave
- Power requirements: AC: 100V/120V/220V/240V 50/60Hz, 20W
- Screen size: 5" diagonal
- Dimensions: 12" (W) x 6 3/8" (H) x 13 3/4" (D)
- Weight: 15.5 lbs.

#72-720 \$359⁹⁵ (ea.)



TENMA™ 6.5MHz Oscilloscope

This model is at home on the test bench or in the classroom. It is a full function 6.5MHz oscilloscope that utilizes a high brightness CRT. Economical and easy to use, it is perfect for applications in education, production, field service, etc.

Features:

- High brightness CRT
- Alligator clip test leads
- External sync input
- Carrying handle

Specifications:

Vertical Deflection:

- Sensitivity: 10mV/div.
- Bandwidth: DC: DC-6.5MHz (-3dB), AC: 2Hz-6.5MHz (-3dB)
- Input impedance: 1Mohm ± 5% within 35pF

Horizontal Deflection:

- Sensitivity: 250mV/div. or better

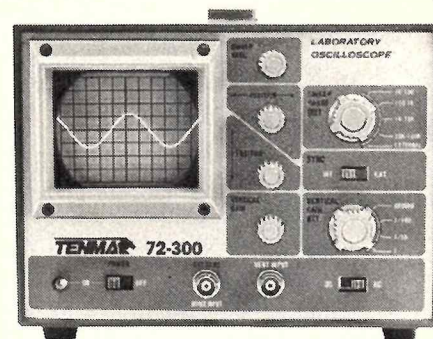
- Bandwidth: DC-500KHz (-3dB)
- Input impedance: 1Mohm ± 10% within 35pF
- Time Base:**
- Sweep frequency: 10Hz-100KHz in four ranges with fine control
- Linearity: Less than 5%
- Synchronizing: External and internal

General:

- Power source: AC115/230V ± 10% 50/60Hz
- Accessories: Alligator clip test leads, instruction manual
- CRT: 2 1/2" screen
- Dimensions: 8 7/8" (W) x 6 3/8" (H) x 12" (D)

- Weight: 8.5 lbs.
- 90 day warranty

#72-300 \$208¹⁰ (ea.)



TENMA™ 100MHz Oscilloscope Probe Kit

Features:

- Bandwidth: 10:1 position: 100MHz at -3dB into 20pF
- Rise time: 10:1 position less than 3.5nsec nominal
- Switch function: (a) 10:1 attenuation ± 1%, with oscilloscope of 1Mohm input resistance; (b) 1:1 attenuation with bandwidth of approximately 10MHz;

- (c) reference position, tip grounded via 9Mohm, oscilloscope input grounded
- Made in England
- 90 day warranty

Kit Contains:

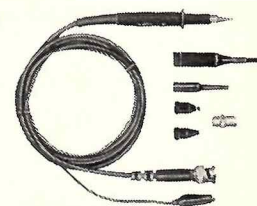
- 10" earth lead, retractable hook, IC test tip, insulator, BNC adaptor, and trimming tool

#72-010 \$32⁵⁰ (kit)

Replacement Hook

#72-015

\$5⁶⁵ (ea.)



TENMA™ 60MHz Oscilloscope Probe Kit

Features:

- Bandwidth: 10:1 position: 60MHz at -3dB into 20pF
- Rise time: 10:1 position less than 3.5nsec nominal
- Switch function: (a) 10:1 attenuation + 1%, with oscilloscope of 1Mohm input resistance; (b) 1:1 attenuation with bandwidth of 60MHz; (c) reference

- position, tip grounded via 9Mohm, oscilloscope input grounded
- 90 day warranty
- Comes in handy storage envelope

Kit Contains:

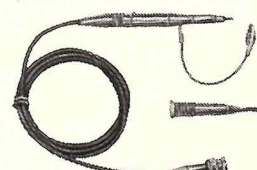
- 6" earth, IC test tip

#72-530 \$20⁷⁰ (1-4 kits) \$18⁶⁰ (5 kits-up)

Replacement Hook

#72-531

\$1⁷⁹ (ea.)





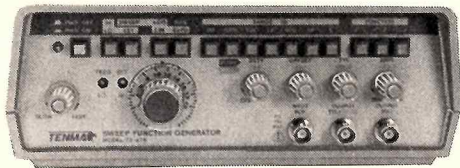
TEST EQUIPMENT

TENMA™ Sweep Generator

This model can be used in applications requiring either a standard function generator or a sweep generator.

Features:

- Produces square, sine, triangle, ramp and pulse waveforms
- Continuously variable sweep width and time
- Variable and fixed output attenuators



1 YEAR LIMITED WARRANTY

- Voltage controlled frequency (VCF) input
- TTL and CMOS pulse output
- Variable DC offset
- Linear or logarithmic sweep modes
- Adjustable easel stand
- Comes complete with test leads and owners manual

Specifications:

- Frequency range: .2Hz-2MHz in seven ranges
- Ranges: 1Hz, 10Hz, 100Hz, 1KHz, 10KHz, 100KHz, 1MHz

- Multiplier: Continuously variable from X.2-X2
 - Accuracy: $\pm 5\%$ dial reading
 - VCF: Approximately 0V-10V ($\pm 1V$) input for 1000:1 frequency ratio (input impedance 10Kohm)
 - Maximum amplitude: 20V peak to peak (open circuit), 10V peak to peak (50ohm)
 - Sinewave distortion: .2Hz-200KHz $\leq 1\%$
 - Squarewave risetime: $< 120\text{nsec}$
 - Pulse risetime: $< 25\text{nsec}$, level $> +3V$ fixed
 - CMOS level: 5V-15V variable
 - Duty cycle control: Continuously variable from 1:1-10:1
 - Sweep width: Continuously variable 1000:1 ratio maximum
 - Sweep time: Continuously variable .5sec-30sec
- General:**
- Power requirements: 110/220VAC 50/60Hz
 - Dimensions: 8 1/2" (W) x 3" (H) x 10" (D)
 - Weight: 6.6 lbs.

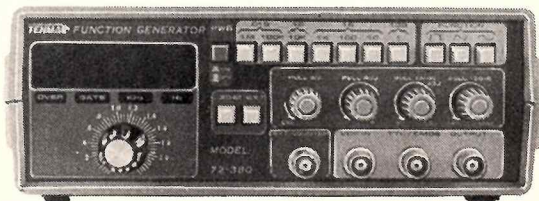
#72-475 \$236¹⁰ (ea.)

TENMA™ Digital Function Generator/Frequency Counter

A versatile function generator with a 10MHz frequency counter, to be used either externally or to measure the output frequency of the generator.

Features:

- Produces square, sine, triangle, ramp and pulse waveforms
- Six digit frequency counter is switchable for internal or external use
- Voltage controlled frequency (VCF) input
- TTL or CMOS pulse output



1 YEAR LIMITED WARRANTY

- Variable DC offset
- Overrange, gate time, Hz, KHz, LED indicators
- Comes complete with test leads and owners manual

Generator Specifications:

- Frequency range: .2Hz-2MHz in seven ranges
- Ranges: 1Hz, 10Hz, 100Hz, 1KHz, 10KHz, 100KHz, 1MHz
- Multiplier: Continuously variable from X.2-X2
- Accuracy: $\pm 5\%$ dial reading
- VCF: Approximately 0V-10V ($\pm 1V$) input for 1000:1 frequency ratio (input impedance 10Kohm)
- Maximum amplitude: 20V peak to peak (open circuit), 10V peak to peak (50ohm)

- Attenuation: Continuously variable and -20dB fixed
- DC offset: Variable +10V to -10V (open circuit), +5V to -5V (50ohm)
- Sinewave distortion: .2Hz-200KHz $\leq 1\%$
- Squarewave risetime: $< 120\text{nsec}$
- Pulse risetime: $< 25\text{nsec}$, level $> +3V$ fixed
- CMOS level: 5V-15V variable
- Duty cycle control: Continuously variable, from 1:1-10:1

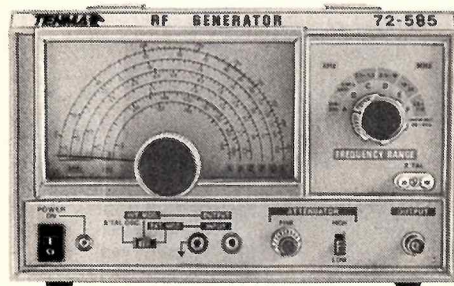
Frequency Counter Specifications:

- Frequency range: 10Hz-10MHz
- Resolution: .1Hz, 1Hz, 10Hz, 100Hz
- Accuracy: $\pm$ time base accuracy + 1 count
- Time base accuracy: ± 10
- Time base frequency: 10MHz
- Temperature stability: $\pm .002\%$, 0°-50°C
- Input impedance: 1Mohm
- Sensitivity: 20mV

General:

- Power requirements: 110/220VAC 50/60Hz
- Dimensions: 8 1/2" (W) x 3" (H) x 10" (D)
- Weight: 6 lbs.

#72-380 \$286⁴⁰ (ea.)



TENMA™ RF Generator

Provides stable RF signals from 100KHz-450MHz. Well suited for service and educational uses.

Features:

- Solid state circuitry for high stability
- Wide frequency range: 100KHz-450MHz
- Built-in 1KHz oscillator

Specifications:

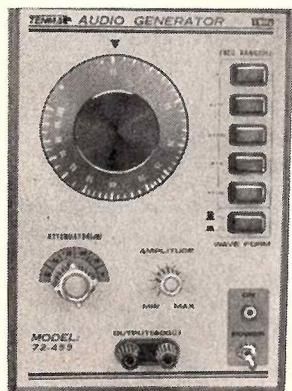
- Frequency range: (A): 100KHz-300KHz, (B): 300KHz-1000KHz, (C): 1MHz-3.2MHz, (D): 3.0MHz-10MHz, (E): 10MHz-30MHz, (F): 32MHz-150MHz (up to 450MHz on third-harmonics)

- Frequency accuracy: $\pm 3\%$
- RF output: 100mV RMS, approximately (up to 35MHz)
- Modulation: Internal: 1KHz, External: 50Hz-20KHz, at less than 1V RMS

General:

- Power requirements: 110V or 220VAC, 50Hz or 60Hz
- Dimensions: 10" (W) x 6" (H) x 5 1/4" (D)
- Weight: 7 lbs.
- 90 day warranty

#72-585 \$138⁹⁵ (ea.)



1 YEAR LIMITED WARRANTY

TENMA™ Audio Generator

A precision audio generator suitable for use in all audio applications.

Features:

- Generates sine and square waveforms
- Six step and continuously variable attenuators
- External sync input
- Comes complete with test leads and owners manual

Specifications:

Sine Wave:

- Frequency range: 10Hz-1MHz in five ranges
- Ranges: X1, X10, X100, X1K, X10K
- Accuracy: $\pm 3\%$ dial reading
- Frequency response: $\pm .5\text{dB}$
- Distortion: 400Hz-20KHz $\leq .1\%$, 100Hz-100KHz $\leq .3\%$, 50Hz-200KHz $\leq .5\%$, 20Hz-500KHz $\leq 1\%$, 10Hz-1MHz $\leq 1\%$
- Output voltage: 20V peak to peak (no load)

Square Wave:

- Output voltage: 10V peak to peak (no load)
- Sag: $\leq 5\%$
- Rise time: $< 200\text{nsec}$
- Overshoot: $\leq 2\%$

External Synchronization:

- Sync range: More than 1V $\pm 1\%$
- Maximum input: 10V RMS
- Input impedance: 10Kohm

Output:

- Output impedance: 600ohm
- Attenuator: 0dB, 10dB, 20dB, 30dB, 40dB, 50dB

General:

- Power requirements: 110/220VAC 50/60Hz
- Dimensions: 5 1/2" (W) x 7 3/4" (H) x 9 1/4" (D)
- Weight: 8 lbs.

#72-455 \$147⁸⁰ (ea.)



TENMA™ Hand Held Audio Generator

The audio generator is ideal for field/bench service of audio equipment, car stereo, etc.

Features:

- Wide frequency range
- Sine wave or square wave output
- Sync output
- Continuously variable and 20dB fixed output attenuators
- Low battery indicator
- Comes complete with test leads and owners manual

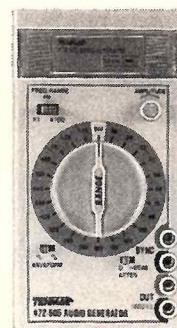
Specifications:

- Frequency range: 20-150KHz in 46 steps + .5dB
- Accuracy: 20-100KHz $\leq 3\%$, above 100KHz $\leq 5\%$
- Distortion: 200Hz-15KHz .05%, 50Hz-30KHz .1%, 20Hz-100KHz .3%
- Output level: Sine wave 1.2V maximum (no load), square wave 8V maximum (no load), .5 μ sec rise and fall time
- Output impedance: 600ohm nominal

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 3 $\frac{5}{16}$ " (W) x 6" (H) x 7 $\frac{1}{8}$ " (D)
- 90 day warranty

#72-505 \$65⁸⁰ (ea.)



TENMA™ 1GHz Multifunction Counter

This multifunction counter is used in high frequency measurement applications where accuracy is a must.

Features:

- Eight digit non-glare LED display
- Selectable gate time
- Frequency, period, totalize and self test functions
- Data hold
- Selectable attenuator
- AC coupling system
- Comes complete with test leads and owners manual

Specifications:

- Counting range: 10Hz-1GHz
- Accuracy: 1Hz + 1 digit + time base accuracy
- Input impedance: 10Hz-100MHz: 1Mohm, >100MHz: 50ohm
- Input sensitivity: 10Hz-100MHz 25mV, >100MHz 15mV

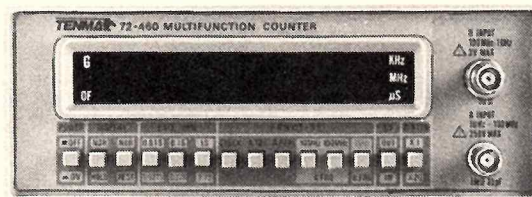
- Gate times: .01sec, .1sec, 1sec
- Attenuator: X1, X20
- Period resolution: 100nsec/N, N = 1, 10, 100 selectable
- Period measurement frequency range: 10Hz-2.5MHz
- Totalize measurement frequency range: 10Hz-10MHz
- Totalize resolution: ± 1 count of input
- Time base frequency: 10MHz

- Self test function: Counts and displays internal time base frequency to verify proper operation

General:

- Power requirements: 110/220VAC 50/60Hz
- Dimensions: 8" (W) x 3" (H) x 9 $\frac{1}{2}$ " (D)
- Weight: 7 lbs.

#72-460 \$299⁹⁵ (ea.)



1 YEAR LIMITED WARRANTY

TENMA™ 100MHz Multifunction Counter

In addition to frequency counting, this model performs period, totalize, and self test functions.

Features:

- Eight digit non-glare LED display
- Selectable gate time
- Frequency, period, totalize and self test functions
- Data hold
- Selectable attenuator and variable trigger level
- Switchable AC and DC coupling systems
- Comes complete with test leads and owners manual

Specifications:

- Counting range: 10Hz-100MHz
- Accuracy: 1Hz + 1 digit + time base accuracy
- Input impedance: 1Mohm
- Input sensitivity: 25mV
- Gate times: .01sec, .1sec, 1sec, 10sec

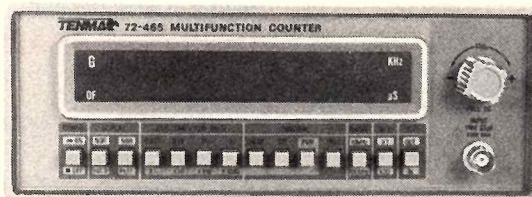
- Attenuator: X1, X20
- Trigger level: Continuously variable ± 350 mV times attenuator setting
- Period measurement frequency range: 10Hz-2.5MHz
- Period resolution: 100nsec/N, N = 1, 10, 100, 1000 selectable
- Totalize measurement frequency range: 10Hz-10MHz
- Totalize resolution: ± 1 count of input
- Time base frequency: 10MHz

- Self test function: Counts and displays internal time base frequency to verify proper operation

General:

- Power requirements: 110/220VAC 50/60Hz
- Dimensions: 8" (W) x 3" (H) x 9 $\frac{1}{2}$ " (D)
- Weight: 7 lbs.

#72-465 \$235⁸⁰ (ea.)



1 YEAR LIMITED WARRANTY

TENMA™ Digital Frequency Counter

This is an easy to use basic frequency counter, that gives highly accurate measurements.

Features:

- Eight digit non-glare LED display
- Selectable gate time
- Selectable attenuator
- AC coupling system
- Adjustable easel stand
- Comes complete with test leads and owners manual

Specifications:

- Counting range: 10Hz-120MHz

- Accuracy: 1Hz + 1 digit + time base accuracy
- Input impedance: 1Mohm
- Input sensitivity: 20mV
- Gate times: .1sec, 1sec, 10sec
- Attenuator: X1, X.1

General:

- Power requirements: 110/220V, 50/60Hz
- Dimensions: 8" (W) x 3" (H) x 10" (D)
- Weight: 7 lbs.

#72-375 \$179⁹⁵ (ea.)



1 YEAR LIMITED WARRANTY

IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



TEST EQUIPMENT

1 YEAR LIMITED WARRANTY

NEW



TENMA™ 150MHz Frequency Probe

This frequency probe is a unique combination of a logic probe and an 8-digit, 150MHz frequency counter. It features switchable gate times and both frequency and period measurement capability. Probe can be powered by the circuit under test or any +9VDC source. For the first time, you can have bench-top performance packaged in an easy-to-use, portable probe style case.

Features:

- 1Mohm input impedance
- Switchable gate times
- Switchable display resolution (1Hz and 10Hz)
- Frequency and period measurement

Specifications:

	Min.	Max.
Power supply range: (V)	4.5	20
Input voltage range: (mVp-p)	25	20,000
Temperature range: (C°)	-20	75
Linearity:		0.5%
Accuracy:		±0.1%
Sensitivity:		25mVp-p
Input impedance:		1Mohm
Frequency range:		DC-150MHz
Current draw:		185mA
Dimensions:	1 1/4" (W) x 5 1/4" (L) x 3/4" (D)	

#72-685 \$149⁹⁵ (ea.)

TENMA™

Bench Top DMM/Capacitance Meter

This model is a full function bench top DMM with a built-in capacitance meter.

Features:

- 3 1/2 digit LCD display
- Measures capacitance up to 20μF
- Input impedance: 10Mohm
- Audible continuity tester
- Auto-polarity
- Overload protection

- AC and DC current up to 20A
- Diode test
- Resistance up to 20Mohm
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ±.5%

AC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V

- Resolution: 100μV, 1mV, 10mV, 100mV, 1V

- Accuracy: ± 1%

DC Current:

- Ranges: 200μA, 2mA, 20mA, 200mA, 2A, 20A
- Resolution: 100nA, 1μA, 10μA, 100μA, 1mA, 10mA
- Accuracy: ± 1%

AC Current:

- Ranges: 200μA, 2mA, 20mA, 200mA, 2A, 20A
- Resolution: 100nA, 1μA, 10μA, 100μA, 1mA, 10mA
- Accuracy: ± 1.5%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm
- Accuracy: ± .75%

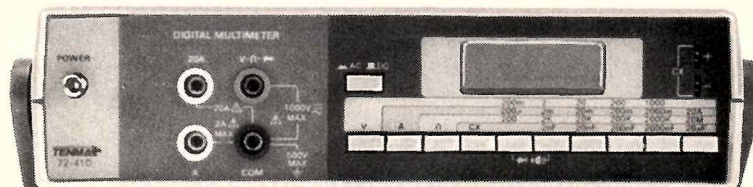
Capacitance:

- Ranges: 2nF, 20nF, 200nF, 2μF, 20μF
- Resolution: 1pF, 10pF, 100pF, 1nF, 10nF
- Accuracy: ± 2%

General:

- Power requirements: 7.5VDC 100mA adaptor (included)
- Dimensions: 8" (W) x 3" (H) x 10" (D)
- Weight: 5 lbs.

#72-410 \$149⁸⁰ (ea.)



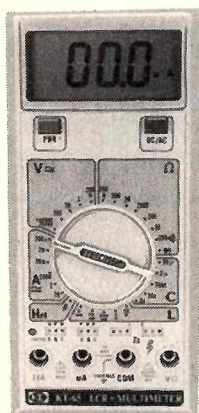
Replacement Leads
#72-052
\$3²⁵ (pr.)

1 YEAR LIMITED WARRANTY

Replacement Leads

#72-052

\$3²⁵ (pr.)



Digital LCR/Multimeter

Extremely versatile, feature packed meter at an affordable price.

Features:

- Measures inductance, capacitance, resistance, voltage and current
- Checks transistor gain
- Continuity test
- Diode test
- Extra large 1/2" LCD display
- Comes complete with carrying case, test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± 0.5%

AC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 750V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± 0.8% (± 1.2% on 750V scale)

AC and DC Current:

- Ranges: 200μA, 2mA, 20mA, 200mA, 2A, 20A
- Resolution: 100nA, 1μA, 10μA, 100μA, 1mA, 10mA
- Accuracy: (AC) ± 2%, (DC) ± 1.5%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm, 200Mohm
- Resolution: 100Mohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm, 100Kohm
- Accuracy: 200ohm-2Mohm scales ± 1%, 20Mohm ± 2%, 200Mohm ± 5%

Capacitance:

- Ranges: 2nF, 20nF, 200nF, 2μF, 20μF
- Resolution: 1pF, 10pF, 100pF, 1nF, 10nF
- Accuracy: ± 3%

Inductance:

- Ranges: 2mH, 20mH, 200mH, 2H, 20H
- Resolution: 1μH, 10μH, 100μH, 1mH, 10mH
- Accuracy: ± 3%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 3 1/3" (W) x 7" (H) x 1 1/2" (D)
- 90 day warranty

#72-680 \$59⁹⁵ (ea.)



TENMA
The name
you can trust



TENMA™

Extended Range Capacitance Meter

This capacitance meter instantly and accurately measures the value of any capacitor between .1pF-20,000μF, eliminating complicated measurement procedures and the guesswork of null meters. Rotary dial for quick and easy range selection.

Features:

- 3½ digit LCD display
- Zero adjustment
- In or out of circuit measurements
- Fuse protected
- Low battery indicator

- Comes complete with test leads, carrying case and owners manual

Specifications:

- Ranges: 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF, 20,000μF
- Resolution: .1pF, 1pF, 10pF, 100pF, 1nF, 10nF, 100nF, 1μF, 10μF
- Accuracy: 20μF and below: ± .5%, 200μF: ± 1%, 2000μF and above: ± 2%

General:

- Time base: Crystal oscillator
- Power requirements: One 9V battery (not included)
- Dimensions: 3¼" (W) x 7" (H) x 1½" (D)

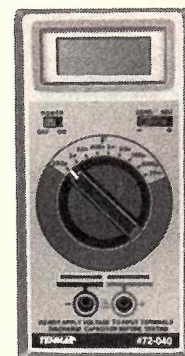
#72-040 \$77⁵⁰ (ea.)

Replacement Leads

#72-041

\$2⁵⁰ (pr.)

1 YEAR LIMITED WARRANTY



Capacitance Meter

This capacitance meter accurately measures the values of any capacitor between .1pF-2000μF

Features:

- 3½ digit LCD display
- Zero adjustment
- Low battery indicator
- In or out of circuit test
- Push button operation
- Comes complete with test leads and owners manual

Specifications:

- Ranges: 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF
- Resolution: 0.1pF, 1pF, 10pF, 100pF, 1nF, 10nF, 100nF, 1μF
- Accuracy: 2.5%

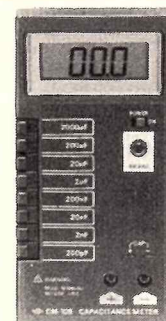
General:

- Power requirements: One 9V battery (not included)
- Dimensions: 3¼" (W) x 7" (H) x 1½" (D)

#72-695 \$49⁹⁵ (ea.)

NEW

1 YEAR LIMITED WARRANTY



TENMA™

Combination DMM/Capacitance Meter

A full function 3½ digit DMM with a digital capacitance meter. Rotary dial design permits rapid selection of functions.

Features:

- Measures capacitance from 1pF-20μF
- 10Mohm input impedance
- Transistor gain and diode test
- Audible continuity test
- AC and DC current up to 10A
- Resistance up to 20Mohm
- Overload protection
- Auto-polarity
- Comes complete with test leads, carrying case and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± .5%

AC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 750V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± 1%

DC Current:

- Ranges: 200μA, 20mA, 200mA, 10A
- Resolution: .1μA, 10μA, 100μA, 10mA
- Accuracy: ± 1%

AC Current:

- Ranges: 20mA, 200mA, 10A
- Resolution: 10μA, 100μA, 10mA
- Accuracy: ± 1.5%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm
- Accuracy: ± .75%

Capacitance:

- Ranges: 2nF, 20nF, 200nF, 2μF, 20μF
- Resolution: 1pF, 10pF, 100pF, 1nF, 10nF
- Accuracy: ± 2%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 3¾" (W) x 7½" (H) x 1¾" (D)

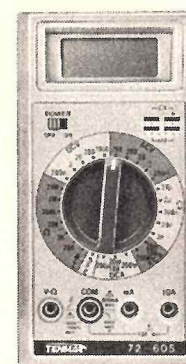
#72-605 \$69⁹⁵ (ea.)

Replacement Leads

#72-052

\$3²⁵ (pr.)

1 YEAR LIMITED WARRANTY



TENMA™ Autorange DMM

The rotary dial design permits fast selection of functions. Meter automatically selects proper range for most accurate reading.

Features:

- 3½ digit LCD display
- Autorange/manual range selector
- Data hold: Holds display reading after meter is removed from circuit
- Memory: Removes stored measurement from future readings
- Audible continuity tester
- Low battery indicator
- Switchable Lo/Hi power ohms
- Comes complete with test leads, carrying case and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V

- Accuracy: ± .5%

AC Voltage:

- Ranges: 2V, 20V, 200V, 750V
- Resolution: 1mV, 10mV, 100mV, 1V
- Accuracy: ± .75%

AC/DC Current:

- Ranges: 200mA, 10A
- Resolution: 100mA, 10mA
- Accuracy: ± 1% (200mA) ± 2% (10A)

Resistance:

- Ranges: (low power) 2Kohm, 20Kohm, 200Kohm, 2Mohm (high power) 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm
- Input impedance: 10ohm
- Resolution: Low — 1ohm, high — .1ohm
- Accuracy: ± .75%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 2¾" (W) x 5¾" (H) x 1¾" (D)

#72-560 \$56⁸⁰ (ea.)

Replacement Leads

#72-076

\$3⁸⁰ (pr.)



1 YEAR LIMITED WARRANTY



Protective DMM Case

- Helps protect meter #72-560 from damage due to falls

#72-615 \$6⁹⁵ (ea.)



TEST EQUIPMENT

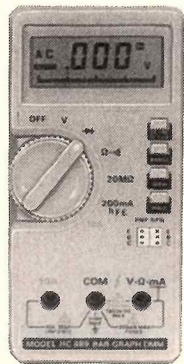
TENMA™

Bar Graph DMM

Autorange DMM with bar-graph display

NEW

1 YEAR LIMITED WARRANTY



Features:

- Bar graph display
- Autorange
- Transistor HFE test
- Diode test
- Audible continuity tester
- Hi/Lo ohms switchable
- Data hold and memory functions
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV
- Accuracy: ± .5%

AC Voltage:

- Ranges: 2V, 20V, 200V, 750V

- Resolution: 1mV
- Accuracy: ± .75%

AC/DC Current:

- Ranges: 200mA, 10A
- Resolution: 100μA, .1mA
- Accuracy: ± 1% (200mA) ± 2% (10A)

Resistance:

- Ranges: (low power) 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm; (high power) 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm
- Resolution: Low 1ohm, high .1ohm
- Accuracy: ± .75%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 2 3/4" (W) x 5 3/4" (H) x 1" (D)

#72-690 \$65⁹⁵_(ea.)

TENMA™

Rotary Dial DMM

This is a full function 3 1/2 digit DMM with the convenience of a rotary dial for rapid selection of functions and ranges.

Replacement Leads

#72-076

\$380
(pr.)

1 YEAR LIMITED WARRANTY



Features:

- AC and DC current up to 20A
- 10Mohm input impedance
- Overload protection
- Auto-polarity
- Low battery indicator
- Comes complete with test leads, carrying case and instruction manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± .25%

AC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 750V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± .5%

AC/DC Current:

- Ranges: 200μA, 2mA, 20mA, 200mA, 2A, 20A
- Resolution: 100nA, 1μA, 10μA, 100μA, 1mA, 10mA
- Accuracy: ± 1.5%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm
- Accuracy: ± .75%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 3 1/4" (W) x 6 7/8" (H) x 1 1/4" (D)

#72-075 \$51⁵⁰_(ea.)

TENMA™

Compact DMM

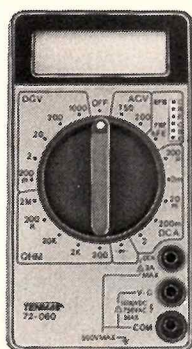
A rugged compact DMM with a rotary dial for quick and easy selection of functions and ranges.

Replacement Leads

#72-480

\$325
(pr.)

1 YEAR LIMITED WARRANTY



Features:

- 3 1/2" shock-mounted LCD display
- Transistor gain and diode test
- Overload protection
- Low battery indicator
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± .5%

AC Voltage:

- Ranges: 200V, 750V
- Resolution: 100mV, 1V
- Accuracy: ± 1.2%

DC Current:

- Ranges: 200μA, 2mA, 20mA, 200mA, 2A
- Resolution: 100nA, 1μA, 10μA, 100μA, 1mA
- Accuracy: ± .75%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm
- Accuracy: ± 1%

General:

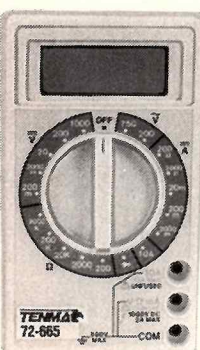
- Power requirements: One 9V battery (not included)
- Dimensions: 2 3/4" (W) x 5" (H) x 1" (D)

#72-060 \$32⁹⁵_(ea.)

TENMA™

Compact DMM

An economical compact DMM with rotary dial for quick and easy selection of functions and ranges.



Features:

- 3 1/2 digit LCD display
- Overload protection
- Diode test
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2000mV, 20V, 200V, 1000V
- Resolution: .1mV, 1mV, 10mV, 100mV, 1V
- Accuracy: ± .7%

AC Voltage:

- Ranges: 200V, 750V
- Resolution: 100mV, 1V
- Accuracy: ± 1.2%

DC Current:

- Ranges: 200μA, 2000μA, 20mA, 200mA, 2000mA, 10A
- Resolution: .1μA, 1μA, 10μA, 100μA, 1mA, 10mA
- Accuracy: ± 1.5%

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2000Kohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm
- Accuracy: ± 1%

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 2 3/4" (W) x 5" (H) x 1" (D)
- 90 day warranty

#72-665 \$19⁹⁵_(ea.)



TENMA™ Pocket DMM

Pocket size autorange DMM. Select the function and the meter automatically selects proper range for the most accurate reading.

1 YEAR LIMITED WARRANTY



Features:

- 3 1/2 digit LCD display
- Data hold: Holds display reading after meter is removed from circuit
- Audible continuity tester
- Diode test
- Comes in folding case complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 500V
- Resolution: 0.1mV, 1mV, 10mV, 100mV, 1V
- Accuracy: $\pm .5\%$

AC Voltage:

- Ranges: 2V, 20V, 200V, 500V
- Resolution: 1mV, 10mV, 100mV, 1V

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2000Kohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm
- Accuracy: $\pm 2\%$

General:

- Power requirements: Two LR44 button cells (#29-620)
- Dimensions: 3" (W) x 4 1/4" (H) x 3/4" (D) folded

#72-600 \$31⁹⁵ (ea.)

TENMA™ DMM/Logic Probe

For troubleshooting today's complex electronics.

Features:

- 3 1/2 digit autorange DMM
- CMOS/TTL logic test
- AC/DC current measurement
- Data hold
- Audible continuity test
- Diode test
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 500V
- Resolution: 100mV, 1mV, 10mV, 100mV, 1V
- Accuracy: 0-200V $\pm .8\%$, above 200V $\pm 1.5\%$

AC Voltage:

- Ranges: 2V, 20V, 200V, 500V
- Resolution: 1mV, 10mV, 100mV, 1V
- Accuracy: 0-200V $\pm 1\%$, above 200V $\pm 1.5\%$

AC/DC Current: (Polyswitch protection)

- Range: 200mA

- Resolution: 100mA

- Accuracy: 0-2Mohm $\pm 1\%$, above 2Mohm $\pm 2\%$

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2Mohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm

- Accuracy: 0-2Mohm $\pm 1\%$, above 2Mohm $\pm 2\%$

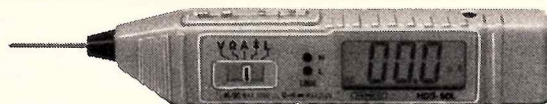
Logic Test:

- Working voltage: 4-16VDC
- Maximum input frequency: 1MHz
- Input impedance: 100Kohm

General:

- Power requirements: Two LR44 button cells (#29-620)
- Dimensions: 7/8" (W) x 1 1/8" (H) x 7 1/4" (D)
- 90 day warranty

#72-700 \$37⁹⁵ (ea.)



NEW

TENMA™ Probe Style DMM

Probe style DMM for convenient one-handed operation.

Features:

- 3 1/2 digit LCD display
- Data hold: Holds display reading after meter is removed from circuit
- Audible continuity tester
- Comes with ground lead and two probe tips

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 500V
- Resolution: .1mV, 1mV, 10mV, 100mV, 1V
- Accuracy: $\pm .5\%$

AC Voltage:

- Ranges: 2V, 20V, 200V, 500V
- Resolution: 1mV, 10mV, 100mV, 1V

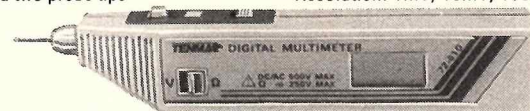
Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2000Kohm, 20Mohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm, 10Kohm
- Accuracy: $\pm 2\%$

General:

- Power requirements: Two LR44 button cells (#29-620)
- Dimensions: 6 3/8" (L) x 1 1/8" (H) x 3/4" (D)

#72-610 \$41⁹⁵ (ea.)



1 YEAR LIMITED WARRANTY

TENMA™ Clamp-On DMM

Simply clamp the unit around one of the power lines to read up to 1000A. Eliminates the need to cut and splice wires. Also measures AC and DC voltage and resistance.

Features:

- 3 1/2 digit LCD display
- Peak hold: Holds display for highest value measured
- Audible continuity tester
- Diode test
- Comes with test leads, carrying case and owners manual

Specifications:

DC Voltage:

- Ranges: 200mV, 2V, 20V, 200V, 1000V
- Resolution: 100μV, 1mV, 10mV, 100mV, 1V
- Accuracy: $\pm .5\%$

Resistance:

- Ranges: 200ohm, 2Kohm, 20Kohm, 200Kohm, 2000Kohm
- Resolution: .1ohm, 1ohm, 10ohm, 100ohm, 1Kohm
- Accuracy: $\pm 1\%$

AC Voltage:

- Ranges: 200V, 750V
- Resolution: .1V, 1V
- Accuracy: 1.2%

AC Current:

- Ranges: 200A, 1000A
- Resolution: 100mA, 1A
- Accuracy: $\pm 2\%$

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 2 11/16" (W) x 9" (L) x 1 1/2" (D)
- Weight: 11 ounces

#72-645 \$79⁰⁰ (ea.)

Replacement Leads

#72-052

\$3²⁵ (pr.)

1 YEAR LIMITED WARRANTY



TENMA™ Insulation Tester

Tests for leakage between AC line and ground on appliances, etc. Must be used with #72-645, shown at left.

Features:

- Test leads, case and owners manual included

Specifications:

- Range: 20Mohm - 2000Mohm
- Effective range: 100Kohm - 19.99Mohm to 10Mohm - 1999Mohm
- Rated voltage: 500VDC

General:

- Requires four "AA" batteries
- Low battery indication
- Dimensions: 2 13/16" (W) x 3 1/2" (L) x 2" (D)
- Weight: 7 ounces
- 90 day warranty

#72-650 \$45⁸⁰ (ea.)



IN CANADA CALL TOLL FREE

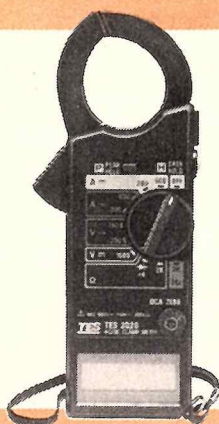
1-800-824-9491

CALL TOLL FREE 1-800-543-4330





TEST EQUIPMENT



1 YEAR LIMITED WARRANTY

AC/DC Clamp Meter

An affordable AC/DC clamp meter, ideal for troubleshooting automotive electronics, appliances, etc.

Features:

- Peak hold/data hold
- Continuity test
- Low battery indication
- Diode test
- 2KHz frequency counter
- Overload protection
- Comes with test leads, carrying case and owners manual

Specifications:

DC Voltage:

- Range: 1000V
- Resolution: 1V
- Accuracy: $\pm .8\%$

AC Voltage:

- Ranges: 200V, 750V
- Resolution: 100mV, 1V
- Accuracy: $\pm 1.2\%$

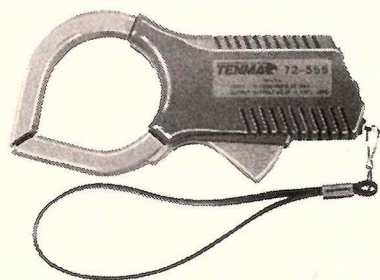
AC/DC Current:

- Ranges: 200A, 600A
- Resolution: 100mA, 1A
- Accuracy: $\pm 2\%$

Resistance:

- Range: 2Kohm
- Resolution: 1ohm
- Accuracy: $\pm 1\%$

#72-660 **\$129⁹⁵** (ea.)



TENMA™ AC Clamp Adaptor

Works with almost any DMM to provide an easy way to measure AC current.

Features:

- Measures AC current without cutting wires
- Measures up to 1000A AC
- Comes complete with test leads (banana plug)

Specifications:

- Measuring range: 0-1000A AC
- Output: 1mVAC for each amp measured

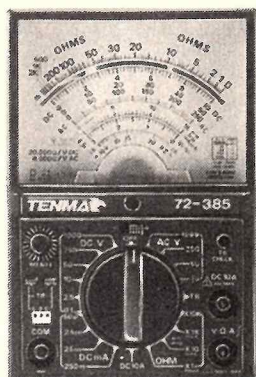
- Accuracy: 0-800A $\pm 2.5\%$, 800-1000A 3%
- Requires a DMM with at least 10Mohm impedance
- Dimensions: 3 1/2" (W) x 7 1/4" (L) x 1" (D)
- 90 day warranty

#72-555 **\$21⁹⁵** (ea.)



Replacement Leads

#72-485
\$3⁵⁵ (pr.)



TENMA™ Analog VOM

Many technicians prefer this high quality analog meter for its ruggedness, reliability and for testing semiconductor junctions.

Features:

- Transistor good/bad and polarity tester
- 3 1/2" mirrored scale
- Fuse and diode overload protection
- Polarity reversing switch
- Pivot and jewel mechanism meter movement
- Complies with UL 1244
- Comes complete with test leads, carrying case and owners manual

Specifications:

DC Voltage:

- Ranges: .1V, 2.5V, 10V, 50V, 250V, 100V
- Sensitivity: 20,000ohm per volt
- Accuracy: $\pm 3\%$

AC Voltage:

- Ranges: 10V, 50V, 250V, 1000V
- Sensitivity: 8000ohm per volt
- Accuracy: $\pm 4\%$

DC Current:

- Ranges: 50 μ A, 2.5mA, 25mA, 250mA, 10A
- Accuracy: $\pm 2.5\%$

Resistance:

- Ranges: R x 1 — 0-2Kohm
- R x 10 — 0-20Kohm
- R x 1K — 0-2Mohm
- R x 10K — 0-20Mohm

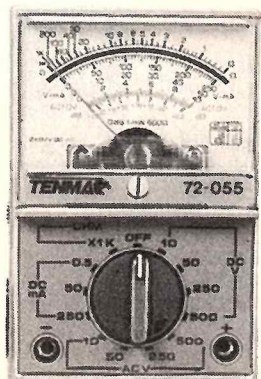
General:

- Power requirements: One 9V and two "AA" batteries (not included)
- Dimensions: 3 7/8" (W) x 5 7/8" (H) x 1 3/4" (D)
- 90 day warranty

#72-385 **\$22⁸⁰** (ea.)

Replacement Leads

#72-054
\$1²⁵ (pr.)



TENMA™ Pocket Size VOM

A good multimeter is indispensable to the handyman or electrician. This model is the ideal economical choice for general measurements.

Features:

- 90° arc mirrored scale
- Zero ohms adjustment
- Compact size
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 10V, 50V, 250V, 500V
- Sensitivity: 2000ohm per volt
- Accuracy: $\pm 4\%$

AC Voltage:

- Ranges: 10V, 50V, 250V, 500V
- Sensitivity: 2000ohm per volt
- Accuracy: $\pm 5\%$

DC Current:

- Ranges: .5mA, 50mA, 250mA
- Accuracy: $\pm 4\%$

Resistance:

- Range: R x 1Kohm
- Accuracy: $\pm 4^\circ$ arc of scale length

General:

- Power requirements: One "AA" battery (not included)
- Dimensions: 2 3/8" (W) x 3 1/2" (H) x 1 1/16" (D)
- 90 day warranty

#72-055 **\$10⁵⁰** (ea.)



TENMA™ Multimeter Kit

This kit is simple to build and requires few tools. Perfect for schools or the experimenter.

Features:

- Measures AC and DC voltage, DC current and resistance
- Audible continuity tester
- Two battery test scales
- dB scales
- Comes complete with test leads and owners manual

Specifications:

DC Voltage:

- Ranges: 2.5V, 10V, 50V, 250V, 1000V
- Sensitivity: 20Kohm per volt
- Accuracy: $\pm 4\%$

AC Voltage:

- Ranges: 10V, 50V, 250V, 1000V

- Sensitivity: 8Kohm per volt
- Accuracy: $\pm 5\%$

DC Current:

- Ranges: 5mA, 50mA, 500mA, 10A
- Accuracy: $\pm 4\%$

Resistance:

- Ranges: R x 1, R x 10, R x 1K
- Accuracy: 4° arc of scale length

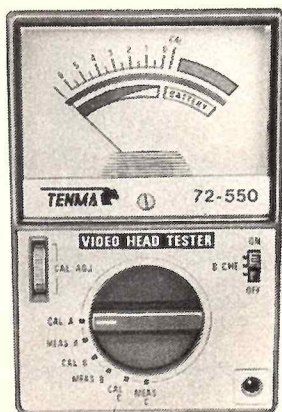
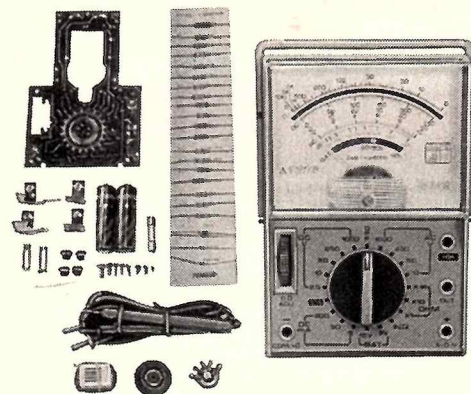
Battery Tester:

- 1.5V under 20mA load
- 9V under 20mA load

General:

- Power requirements: Two "AA" batteries (not included)
- Dimensions: 3 1/2" (W) x 5 1/4" (H) x 1 1/2" (D)
- 90 day warranty

#72-570.....\$17⁷⁵ (kit)



TENMA™ Video Head Tester

Video head tester for VHS video heads. Bridge measuring circuit determines if head is worn or defective.

Features:

- Three measurement ranges
- Built-in easel stand
- Automatic internal battery check
- Comes with IC test clips, carrying case and owners manual

Specifications:

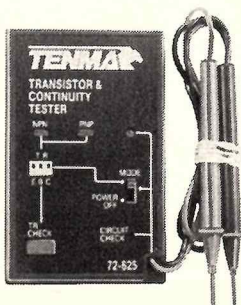
- Ranges: A/ 2-3.5μh, B/ 8-3.0μh, C/ 5-15μh
- Measuring frequency: 1MHz

General:

- Power requirements: One 9V battery (not included)
- Dimensions: 4" (W) x 6" (H) x 1 1/4" (D)

#72-550.....\$63⁹⁵ (ea.)

1 YEAR LIMITED WARRANTY



TENMA™ Transistor and Continuity Tester

Provides a quick and easy way to check transistors, fuses, switches, etc.

Features:

- LED indicators identify PNP or NPN transistors
- Audible continuity tester varies tone with resistance

General:

- Power requirements: Two "AAA" batteries (not included)
- Dimensions: 2 1/8" (W) x 3 3/8" (H) x 5/8" (D)
- 90 day warranty

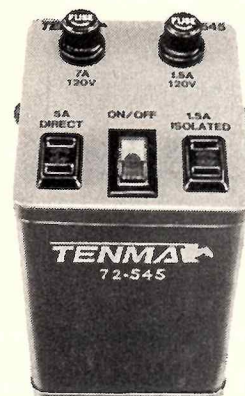
#72-625.....\$11⁹⁵ (ea.)



TENMA™ Neon Voltage Tester

- Quickly detects live circuits from 60-500V AC and DC
- Ideal for testing outlets, switches, fuses and house wiring
- Dependable neon lamp indicates presence of voltage
- Pocket clip attached to keep tester handy

#22-690.....\$2⁰⁰ (1-9).....\$1⁵⁵ (10-up)



TENMA™ Isolation Transformer

Provides isolation from AC line when servicing "hot" chassis equipment. Eliminates shock hazard and prevents damage to AC line operated test equipment.

Features:

- Fused 150VA isolated outlet
- Fused 550VA direct outlet
- Illuminated power switch
- UL approved

Specifications:

- Input: 120VAC, 60Hz
- Output: (Isolated) 120VAC 1.5A maximum (Direct) 120VAC 5A maximum
- Isolation: Less than .1mA leakage

General:

- Dimensions: 3 3/8" (W) x 5 3/8" (H) x 3 3/4" (D)
- Weight: 7 lbs.
- 90 day warranty

#72-545.....\$59⁹⁵ (ea.)



TENMA™ 10A Variable (Autotransformer)

Gives you the ability to vary line voltage between 0 to 130VAC. Perfect way to safely troubleshoot power supplies, regulators, output sections etc. Built-in ammeter shows current draw to help identify shorts before they can cause costly component failures. Fused design enables user to limit current by simply changing fuse value (10A maximum). Three prong grounded cord and socket provides convenience and safety.

Specifications:

- Input: 120V, 60Hz
- Output: 0-130VAC
- Current: 10A, 1.3KVA
- Fuse: 10A AGC (included)
- Non-insulated
- 90 day warranty

#72-110.....\$81⁶⁵ (ea.)



TEST EQUIPMENT

TENMA™

Heavy Duty Laboratory Power Supply

A very clean, well regulated variable DC power supply designed for high current servicing, design and laboratory applications.

Features:

- Lighted cross needle meter simultaneously displays voltage, current, and power
- Over current and over voltage protection reduce the risk of damage to equipment being powered
- Overload indicator
- Multi-terminal output. One set of high current output terminals (30A maximum) and two sets of low current output terminals (5A maximum)
- Fan cooled for maximum heat dissipation

Specifications:

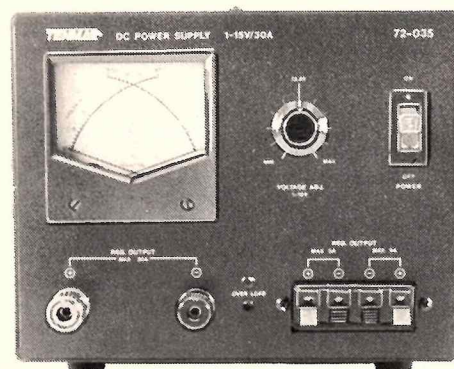
- Output voltage: 1-15VDC variable
- Output current: 30A one minute on, three minutes off; 24A continuous
- Voltage fluctuations: Less than .5% at rated output
- Ripple voltage: Less than 1mV at rated output

General:

- Power requirements: 110VAC, 60Hz
- Dimensions: 7 1/2" (W) x 6" (H) x 11 3/4" (D)
- Weight: 22 lbs.

#72-035.....\$245⁸⁰ (ea.)

1 YEAR LIMITED WARRANTY



TENMA™ Heavy Duty Power Supply

1-15V variable DC power supply capable of supplying up to 30A. Perfect for servicing or powering car stereo products.

Features:

- Lighted cross needle meter simultaneously displays voltage, current, and power
- Convenient cigarette lighter jack for powering automotive electronic products
- Over current protection automatically shuts off current flow when maximum output is exceeded (31A)
- Overload indicator
- Multi-terminal output. One set of high current output terminals (30A maximum) and two sets of low current output terminals (5A maximum)

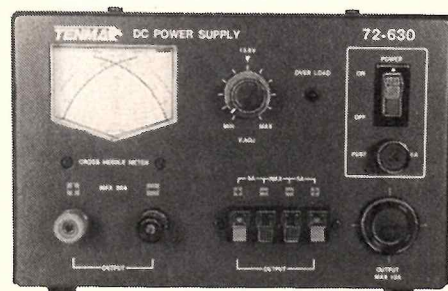
Specifications:

- Output voltage: 1-15VDC variable
- Output current: 30A one minute on, three minutes off; 24A continuous
- Voltage fluctuation: Less than .5% at rated output
- Ripple voltage: Less than 1mV at rated output

General:

- Power requirements: 110VAC, 60Hz
- Dimensions: 8 3/4" (W) x 6" (H) x 9" (D)
- Weight: 20 lbs.
- 90 day warranty

#72-630.....\$189⁹⁵ (ea.)



TENMA™ 10A Regulated Power Supply

- Output: Regulated 13.8VDC
- Input: 120VAC
- Fuse protected
- With easily accessible fuse holder
- Neon light indicator
- Heavy duty binding posts
- Effective heat sinks for more power dissipation
- Output current: 10A one minute on, three minutes off; 7A continuous
- Dimensions: 8" (W) x 4 1/8" (H) x 7 1/2" (D)
- 90 day warranty

#72-290.....\$59⁹⁵ (ea.)

TENMA™ 5A Regulated Power Supply

- (Shown)
- Output: Regulated 13.8VDC
- Input: 120VAC
- Fuse protected
- With easily accessible fuse holder
- Neon light indicator
- Heavy duty binding posts
- Effective heat sinks for more power dissipation
- Output current: 5A one minute on, three minutes off; 3.5A continuous
- Dimensions: 4 1/4" (W) x 3 1/8" (H) x 8 5/16" (D)
- 90 day warranty

#72-280.....\$33⁵⁰ (ea.)



TENMA™ Laboratory Power Supply

This is a lab quality DC power supply with adjustable current limiting.

Features:

- Current limiter can be adjusted to any value between 0 and 3A
- Output voltage adjustable between 0 and 18VDC
- Separate voltage and current meters
- Fine and coarse voltage adjustments for accurate voltage settings
- Short circuit protection ■ Hi-Lo current scales
- Can be used as a constant current or constant voltage source
- Comes complete with leads and owners manual

Specifications:

Constant Voltage Operation:

- Line regulation: $\pm .01\%$
- Load regulation: $\pm .2\%$
- Ripple current: $\pm 3mA$

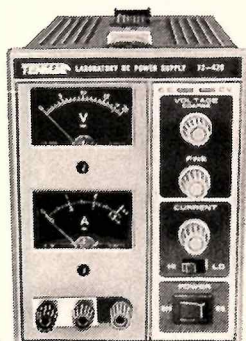
Constant Current Operation:

- Line regulation: $\pm .2\%$
- Load regulation: $\pm .2\%$
- Ripple current: $\pm 3mA$

General:

- Power requirements: 110VAC, 50/60Hz
- Dimensions: 4 13/16" (W) x 6 7/8" (H) x 12" (D)
- Weight: 7 lbs.
- 90 day limited warranty

#72-420.....\$131⁷⁵ (ea.)



60 Volt Laboratory Power Supply

This is a lab quality DC power supply with adjustable current limiting.

Features:

- Current limiter can be adjusted to any value between 0-1A
- Output voltage adjustable between 0-60VDC
- Separate voltage and current meters
- Fine and coarse voltage adjustments for accurate voltage settings
- Short circuit protection ■ Hi-Lo current scales
- Can be used as a constant current or voltage source
- Comes complete with leads and owners manual

Specifications:

Constant Voltage Operation:

- Line regulation: $\pm .01\%$
- Load regulation: $\pm .02\%$
- Ripple current: $\pm 3mA$

Constant Current Operation:

- Line regulation: $\pm .2\%$
- Load regulation: $\pm .2\%$
- Ripple current: $\pm 3mA$

General:

- Power requirements: 110VAC, 50/60Hz
- Dimensions: 4 13/16" (W) x 6 7/8" (H) x 12" (D)
- Weight: 7 lbs.
- 90 day limited warranty

#72-675.....\$179⁰⁰ (ea.)



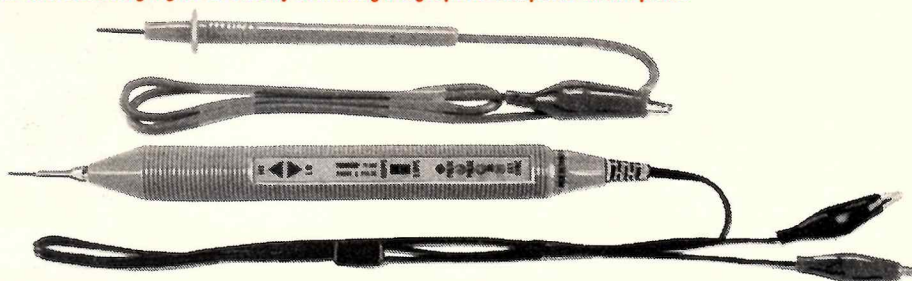
CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



TENMA™ 50MHz Logic Probe and Pulser

Simplifies troubleshooting digital circuits by combining a logic probe and pulser in one probe.



Specifications:

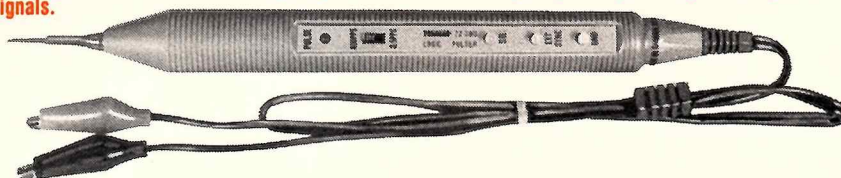
- Maximum input signal frequency: 50MHz
- Input impedance: 120Kohm
- Operating voltage: 4VDC-18VDC
- TTL: Logic "1" > 3.0V ± .25V, Logic "0" < .75V ± .25V
- CMOS: Logic "1" > 60%VCC ± 5%, Logic "0" < 15%VCC ± 5%
- Minimum detectable pulse width 10nsec
- Pulser: Sync input impedance 1Mohm
- Pulse rate: Switchable .5pps or 400pps
- Pulse width: 10µsec
- Dimensions: 8 3/16" (L) x 1 1/16" (Dia)
- 90 day warranty

#72-500

\$33⁸⁵
(ea.)

TENMA™ Logic Pulser

This logic pulser is a very effective tool for troubleshooting or testing logic circuits. It can be used to directly inject a signal into logic circuits without removing components. It also has a sync input for producing externally synced signals.



Specifications:

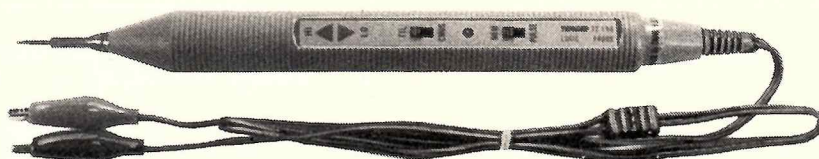
- Operating voltage range: 5-15VDC
- Maximum input probe voltage: ± 35VDC
- Maximum sync input voltage: ± 120V/15sec
- Sync input impedance: 1Mohm
- Pulse repetition rate: .5 peak to peak/400 peak to peak
- Pulse width at output: 10nsec
- Output current: Pulser mode, 100mA sink/source; Square wave, 5mA sink/source
- Dimensions: 8 3/16" (L) x 5/8" (Dia)
- 90 day warranty

#72-360

\$23⁹⁰
(ea.)

TENMA™ Logic Probe with Memory

This compact and lightweight probe recognizes high, intermediate, and low level pulses in DTL, TTL, HTL, and CMOS logic circuits.



Specifications:

- Pulse detector (pulse-led): High speed pulse train or single events (+ or - transitions) activate 1/3 second pulse stretcher. In memory position of pulse/memory switch, first transition lights and latches LED
- Detectable pulse width: 50nsec minimum
- Input impedance: >100Kohm
- Input signal frequency: >10MHz
- Input overload protection: ± 100V continuous, 117VAC for less than 30 seconds
- Probe power: DC5V — 15V/25mA — 40mA
- Probe power protection: ± 36V maximum with power lead reversal protection
- Dimensions: 7 7/8" (L) x 5/8" (Dia)
- 90 day warranty

#72-190

\$23⁹⁰
(ea.)

TENMA™ Logic Probe

The fast way to "peek inside" TTL/LS and CMOS/MOS digital circuits. Color coded LEDs indicate high, low or pulsed logic states (up to 20MHz). Simultaneous tone output (high, low or both).



Specifications:

- Working voltage: 4-16VDC
- Current consumption: Maximum 32mA at 5V
- Frequency response: Maximum 20MHz
- Detectable pulse width: Longer than 25nsec
- Input impedance: 1Mohm minimum
- Input overload protection: ± 250VDC/AC
- Supply voltage protection: ± 50VDC/AC
- Dimensions: 7 3/4" (L) x 1" (Dia)
- 90 day warranty

#72-415

\$14⁹⁵
(ea.)

TENMA™ RS-232 Break Out Box

The break out box provides a quick and easy way to troubleshoot or customize any RS-232 data line.

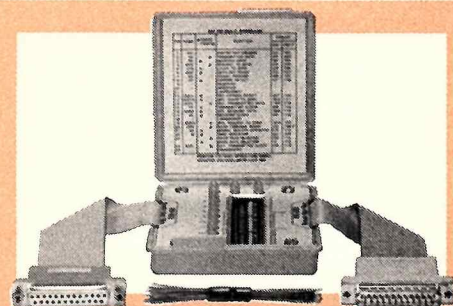
Features:

- Monitors individual communication interface lines
- Detects the presence or absence of activity
- Rewires RS-232 interfaces
- Line powered
- Dual-state LEDs monitor both positive and negative signal levels
- Monitors lines 2, 3, 4, 5, 6, 8, 15, 17, 20 and 24
- 48 test points
- 20 jumpers included
- One male and one female RS-232 connector
- Rugged plastic case
- Dimensions: 3 1/4" (W) x 1" (H) x 3 1/2" (D)
- 90 day warranty

#72-440

\$47²⁵
(ea.)

\$42⁹⁵
(2-up)





TEST EQUIPMENT

TENMA™ Digital Lux Meter

The large 3 1/2 digit LCD display and data hold feature make this light meter simple to use and extremely accurate.

Features:

- 3 1/2 digit LCD display
- Data hold function
- Low battery indicator
- Output provided for recorder
- Comes complete with carrying case, protective lens cap and instruction manual

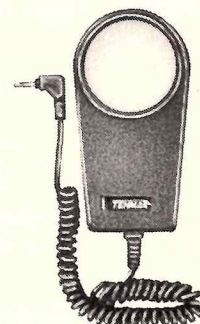
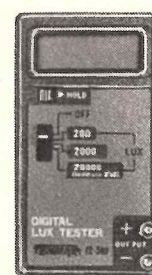
Specifications:

- Measurement range: 0-20,000 lux (three scales)
- Accuracy: $\pm 4\%$ (0-2000 lux) $\pm 7\%$ (2000-20000 lux)
- Incident angle characteristics: $30^\circ \pm 2\%$, $60^\circ \pm 7\%$, $80^\circ \pm 25\%$
- Photosensor: Selenium cell in hermetically sealed housing
- Recorder output: DC 20mV f.s.

General:

- Sensor: 2 1/2" (W) x 5" (H) x 1 1/2" (D)
- Sensor cord: 36" long
- Power requirements: One 9V battery (not included)
- Dimensions: 2 1/2" (W) x 4 3/4" (H) x 1" (D)
- 90 day warranty

#72-580 \$69⁹⁵ (ea.)



Laser Power Meter

Measures output of laser and infrared sources. Used in servicing CD players, video disc players, VCRs, remote controls and etc. Built-in load simulation circuit, required to service many CD players.

Features:

- Built-in battery test
- Comes complete with carrying case, owners manual and test leads

1 YEAR LIMITED WARRANTY

Specifications:

- Range settings: .3mW, 1mW, 3mW
- Wave length settings (switchable): 633nm and 750nm-820nm
- Accuracy: 5%

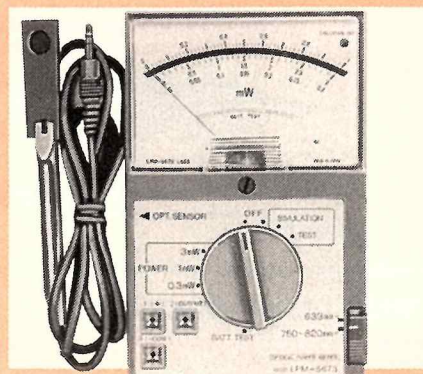
Dimensions:

- Meter: 3 3/4" (W) x 6" (L) x 1 1/8" (D)
- Sensor probe: 1/2" (W) x 5" (L) x 1/8" (D)
- Cord length: 36"

Power Source:

- Uses two "AA" batteries (not included)

#72-670 \$199⁹⁵ (ea.)



TENMA™ Signal Tracer/Injector

Troubleshoots audio circuits from input to speaker.

Features:

- Variable level 1KHz injection signal
- VU level meter
- Switchable detector for troubleshooting AM circuits
- Speaker test output
- Output provided for oscilloscope or other measurements
- Comes complete with test probe and owners manual

Specifications:

Amplifier:

- Gain: Maximum 60dB
- Attenuation: 0dB, 20dB, 40dB, 60dB fixed and continuously variable

- Input impedance: 100Kohm
- Output impedance: 600ohm
- Speaker: 2", 8ohm

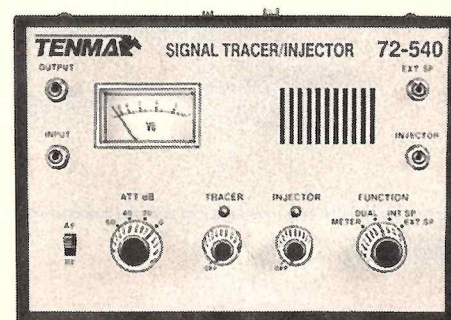
Injector:

- Frequency: 1KHz square wave
- Output level: Continuously variable 0-4.5VPP

General:

- Power requirements: One 9V battery or AC adaptor (not included)
- Dimensions: 7 3/4" (W) x 5 1/2" (H) x 4" (D)
- 90 day warranty

#72-540 \$126⁹⁵ (ea.)



TENMA™ AC Millivoltmeter

This millivoltmeter is perfect for servicing and designing audio products as well as measuring the outputs of audio and video heads.

Features:

- 3 1/2" mirrored scale
- Calibrated in mV RMS and dB
- Amplified output for observing microvolt signals on oscilloscope
- Comes complete with test leads and owners manual

Specifications:

Meter:

- Voltage ranges (full scale): 12 ranges, 300μV, 1mV, 3mV, 10mV, 30mV, 100mV, 300mV, 1V, 3V, 10V, 30V, 100V **Note:** With 300μV range, coaxial cable #21-600 or 21-605 must be used
- dB ranges (0dB = 1V): 12 ranges, -70dB, -60dB, -50dB, -40dB, -30dB, -20dB, -10dB, 0dB, +10dB, +20dB, +30dB, +40dB

- dB scale: -20 to +1dB (0dB = 1V), -20 to +3dBm (0dBm = 1mW, 600ohm)
- Voltage accuracy: Within $\pm 3\%$ of full scale at 1KHz
- Frequency response: 20Hz-200KHz within $\pm 3\%$, 10Hz-1MHz within $\pm 10\%$ (referenced to 1KHz response)
- Distortion: Less than 1% at full scale
- Maximum input voltage: 300V (300μV to 1V ranges), 500V (3V-100V ranges)
- Input impedance: 1Mohm
- Input capacitance: 50pF

Amplifier:

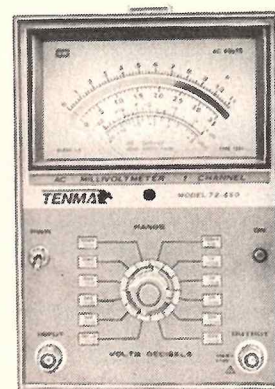
- Output voltage: 1V RMS $\pm 10\%$
- Output resistance: 600ohm $\pm 10\%$
- Frequency response: 10Hz-1MHz within $\pm 3\text{dB}$

General:

- Power requirements: 110/220VAC 50/60Hz
- Dimensions: 5 1/2" (W) x 7 7/8" (H) x 8" (D)
- Weight: 7 lbs.

#72-450 \$150⁴⁰ (ea.)

1 YEAR LIMITED WARRANTY



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491

NEW FLUKE TEST EQUIPMENT



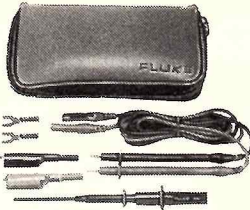
FLUKE

Since 1949, Fluke has been manufacturing high quality, American made measurement instruments for electronic service and repair customers. Fluke has earned respect around the world as one of the leaders in high-technology instrumentation. Fluke manufactures a wide variety of DMMs with specialized features and functions for a broad range of applications. In addition, Fluke also offers high quality test leads and accessories to further enhance their test equipment line.

Fluke Model Y8134 Test Lead Set **NEW**

■ Set contains: Test leads, probes, insulated alligator clips, spade lugs, spring loaded hook probe and carrying case

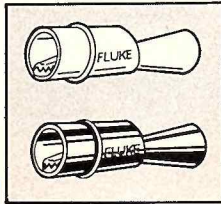
#105-006 \$27⁰⁰ (set)



Fluke Model AC70 Alligator Clip Adaptor **NEW**

■ Slip-on alligator clips for TL70 test leads and other standard point probes with .080" diameter tips ■ Maximum voltage: 1000V, maximum current: 10A ■ Two red and two black

#105-007 \$5⁹⁵ (ea.)



Fluke Model C25 Ruggedized Soft Case **NEW**

■ For the Fluke 23, 25 or 27 ■ A durable padded soft case with two storage pockets ■ Water resistant zipper

#105-008 \$20⁰⁰ (ea.)



Fluke Model C90 Soft Case **NEW**

■ Similar to C25, but smaller and without accessory storage or water resistant zipper ■ One internal pocket ■ Holds Fluke 21, 23, 50 and 70 series in a C70 holster

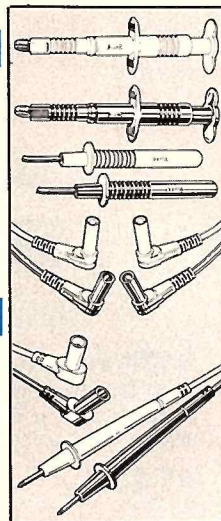
#105-010 \$15⁰⁰ (ea.)



Fluke Model C70 Multipurpose Holster **NEW**

■ Made of heavy vinyl ■ Fits Fluke 21, 23, 50 and 70 series ■ Lead storage on back ■ Includes tilt stand and belt hook

#105-009 \$14⁰⁰ (ea.)



Fluke Model TL20 Industrial Test Lead Set **NEW**

■ 63" silicon insulated test leads which remain flexible from -100°C to 300°C (-148°F to 572°F) ■ Shrouded right angle connections ■ Interchangeable stainless steel test probes and safety alligator clips

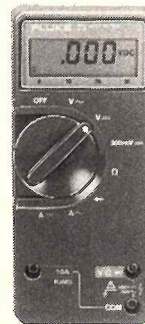
#105-011 \$35⁰⁰ (set)

Fluke Model TL70 Right Angle Test Lead Set **NEW**

■ Shrouded input plugs will not pull out of meter during use ■ Single piece construction ■ 36" length

#105-012 \$8⁹⁵ (ea.)

MCM WILL SPECIAL ORDER ANY FLUKE TEST EQUIPMENT



Fluke 70 Series DMMs

■ 3200 count display (additional resolution over 2000 count DMMs) ■ Analog/digital display (analog needle simulator for peaking, nulling and varying signals) ■ Autoranging ■ Sleep mode (automatic power down to conserve battery) ■ 2000 hour battery life ■ 3 year warranty ■ UL listed

NEW

Fluke Model 73 DMM

■ Fused 10 A range only (no milliamp ranges)

3 YEAR MANUFACTURER'S WARRANTY

#105-004 \$85⁰⁰ (ea.)



NEW

Fluke Model 75 DMM

■ Fused 10A and milliamp ranges ■ Range hold ■ Continuity beeper

3 YEAR MANUFACTURER'S WARRANTY

#105-003 \$125⁰⁰ (ea.)



NEW

Fluke Model 77 DMM

■ Fused 10A and milliamp ranges ■ Range hold ■ Continuity beeper ■ Touch hold ■ Multipurpose ■ Holster/carrying case (C70) included

3 YEAR MANUFACTURER'S WARRANTY

#105-001 \$165⁰⁰ (ea.)



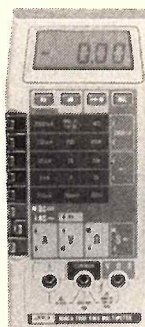
NEW

Fluke Model 87 DMM

■ 4000 count display ■ Frequency measurements (0.5Hz-200KHz) ■ Min/max/avg recording (records highest and lowest and computes average) ■ Relative mode (offset or comparison measurements) ■ Capacitance measurements of 0.1nF-5μF ■ Duty cycle test ■ Touch hold ■ Sealed case ■ 1000V AC/DC ■ Holster with Flexstand ■ .1% accuracy ■ High resolution bar graph ■ True RMS (20KHz bandwidth) ■ Backlit display ■ 4 1/2 digit mode ■ 1msec peak min/max ■ 3 year warranty ■ UL listed

3 YEAR MANUFACTURER'S WARRANTY

#105-002 \$300⁰⁰ (ea.)



NEW

Fluke Model 8060A DMM

■ High accuracy 4 1/2 digit DMM ■ True RMS AC measurements to 100KHz ■ Fast audible and/or visual continuity test ■ Relative reference (offset or comparison measurements) ■ Self-diagnostics ■ Extensive overload protection ■ Frequency measurements 12Hz-200KHz ■ dBm or relative ■ 0.04% DC accuracy ■ 0.2% AC accuracy ■ 1 year warranty ■ UL listed

1 YEAR MANUFACTURER'S WARRANTY

#105-005 \$429⁰⁰ (ea.)

IN CANADA CALL TOLL FREE

1-800-824-9491

CALL TOLL FREE 1-800-543-4330

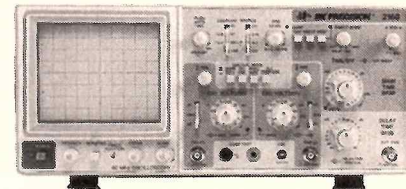




B&K TEST EQUIPMENT

BK PRECISION Oscilloscopes

Order #	B&K #	Bandwidth (MHz)	Deflection Factor/Division	# of Channels	Acceleration Potential	Sweep Rate (max.)	Delayed Sweep/Dual Time Base	Delay Line	V-Mode Alternate Trigger	Video Sync	MCM Price
73-420	2120	20	1mV/div-20MHz	2	2KV	.5μsec/div	NO	NO	YES	YES	CALL
73-505	2160	60	1mV/div-60MHz	2	12KV	5nsec/div	YES	YES	YES	YES	CALL
73-570	2190	100	1mV/div-100MHz	3	19KV	2nsec/div	YES	YES	YES	YES	CALL



BK PRECISION

Dual Output Isolation Transformer

■ A "must" for safe testing of transformerless equipment ■ Direct and isolated outputs ■ Input requirements: 105-130VAC, 60HZ
Output Power Rating: ■ Direct: 500VA continuous ■ Isolated: 350VA continuous, 500VA intermittent ■ Two 3-position slide switches provide nine combinations of voltage selection from 90-140V

#73-410

B&K #TR-110..... Call for MCM Price



Transistor Tester

■ Good/bad test: For transistors, FETs, SCRs and Darlington in or out of circuit ■ Identifies: Transistors as NPN or PNP; FET as N-channel or P-channel ■ Identifies: FET-gate lead, all leads of transistors in LO drive; base lead in HI drive, all leads of SCR ■ Carrying case included

#73-485

B&K #510 Call for MCM Price

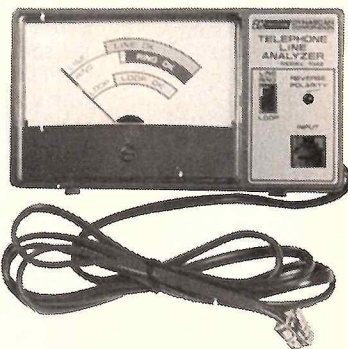


Telephone Line Analyzer

■ Provides fast indication of telephone line parameters that affect telephone operation ■ Verifies telephone line polarity that can affect polarity sensitive telephones ■ Verifies ring and line voltage levels ■ Can be used to verify basic telephone functions ■ Can be used to test condition of telephone line cord

#73-190

B&K #1042..... Call for MCM Price

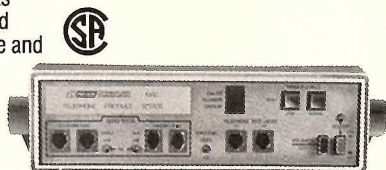


Telephone Product Tester

■ Checks line and handset cord for continuity, shorts and intermittents ■ Verifies number dialed or redialed (pulse or tone) ■ Verifies that voice and DTMF levels are above minimum required level ■ Provides low and normal level ring test

#73-180

B&K #1045..... Call for MCM Price



MCM will special order any B&K test equipment.

BK PRECISION

Isolated AC Supply

■ Variable isolated 0-150VAC, 2A continuous output ■ Displays voltage or current readings ■ Isolation transformer to eliminate shock hazard while servicing "hot chassis" equipment ■ Compact, rugged

#73-100

B&K #1653..... Call for MCM Price



Isolated AC Supply/Leakage Tester

■ Power line leakage tester ■ Variable-isolated output 0-150VAC ■ 3A continuous, 4A intermittent output ■ Built-in solid state soldering iron temperature control ■ Expanded leakage scale ■ Circuit breaker overload protection ■ Displays: Volts, amps, VA, leakage ■ Two volt-amp ranges (0-240, 0-480) for convenient load requirements

#73-280

B&K #1655..... Call for MCM Price



0-50V Power Supply

■ Isolated 0-50VDC, continuously variable; 0-2A in four ranges ■ Fully automatic shutdown, adjustable current limit ■ Perfect for solid state servicing

#73-275 B&K #1601 Call for MCM Price



100MHz Frequency Counter

■ 5Hz-100MHz range ■ Eight digit LED display ■ Leading zero blanking ■ Low pass filter ■ BNC connector input ■ Overflow indicator ■ Battery or AC powered ■ Charger/AC adaptor included ■ Integral tilt stand

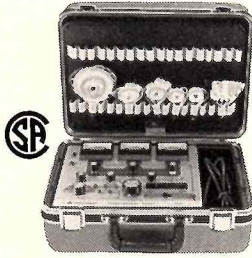
#73-255 B&K #1803 Call for MCM Price



BK PRECISION

CRT Restorer/Analyzers

■ Tests performed: Emission, leakage tracking (color tubes) ■ #73-015 also tests focus continuity and #73-025 also tests life ■ Restoring function: Shorts removal, gun cleaning and balancing, cathode rejuvenation ■ Meters: #73-015; three 2 1/2" D'Arsonval movement #73-025; one 4 1/2" D'Arsonval movement ■ Adaptors included: CR1 (90° in-line RCA), CR3 (90° RCA button base, large Trinitron) CR4 (90° GE in-line button base), CR5 (small Trinitron), CR6 (110° B/W RCA button base) and CR20 (Zenith tri-potential) ■ Other adaptors available

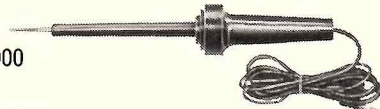


#73-015 **B&K #490** Call for MCM Price

#73-025 **B&K #480** Call for MCM Price

High Voltage Multiplier Probe

■ Multiplies instrument ranges by 1000 ■ For use with any high impedance voltmeter (10Mohm or greater)



#73-315 **B&K #PR-28** Call for MCM Price

High Voltage Probe

■ Offers extreme reliability and user safety ■ Measures voltages up to 40KVDC ■ Factory calibrated at 25KV ($\pm 2\%$ accuracy); full scale $\pm 3\%$ accuracy ■ Positive polarity only ■ Not for microwave ovens



Contains: Two tips, conventional round needle type and flat spring type for easy access to CRT anode

#73-520 **B&K #HV-44** Call for MCM Price

Hand Held Parts Tester

■ Tests capacitance (0.1pF-20mF) ■ Tests resistance (0.1ohm-20Mohm) ■ Tests transistors (hFE and I_{ceo} leakage), SCRs, diodes and LEDs ■ Tests batteries under actual loaded conditions ■ 3 1/2 digit display ■ Overrange and low battery indication



NEW

#73-600
B&K #815 Call for MCM Price

BK PRECISION B&K Digital Multimeters



#73-580



#73-245



#73-525



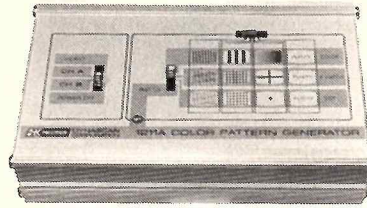
#73-595

Order #	B&K#	Description	DCV(max.)	ACV(max.)	Ohms	Current(max.)	Other Features	MCM PRICE
73-580	2832	3 1/2 Digit Bench Top	1000	1000	.1-20M	20A	Capacitance test, .5% accuracy, continuity and diode test. Carrying case included.	CALL
73-585	2940	4 1/2 Digit Handheld	1000	750	.1-20M	10A	200KHz frequency counter, data hold, .5% accuracy	CALL
73-575	2905	3 1/2 Digit Handheld	1000	750	.1-20M	10A	Capacitance test, hFE test, continuity and diode test, .5% accuracy	CALL
73-245	2802A	3 1/2 Digit Probe Style	500	500	.1-20M	—	Auto range, continuity test, data hold	CALL
73-525	388HD	3 1/2 Digit Portable Test Bench	1000	750	.1-2000M	20A	200KHz frequency counter, hFE test, logic level, continuity and diode test, capacitance meter	CALL
73-595	377	3 1/2 Digit Compact Test Bench Jr.	1000	750	.1-2000M	10A	200KHz frequency counter, hFE test, logic level, continuity and diode test, capacitance meter	CALL

BK PRECISION

Portable IC Color Pattern Generator

■ Generates ten patterns including: Crosshatch, 7x11 dot, gated rainbow and purity ■ Adjustable RF output into 75ohm load ■ Adjustable video output up to 1V peak to peak into 75ohm load ■ One 9V battery (included) gives 16 hours continuous operation



#73-240
B&K #1211B Call for MCM Price

Television Frequency Converter/Modulator

■ Converts any video generator to all channel operation ■ Lets you check TV and VCR tuners on every channel ■ Converts channel 3 input to any channel ■ Operates on all broadcast and cable frequencies including HRC and ICC

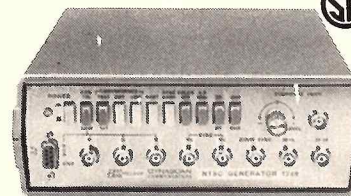


#73-590
B&K #1201 Call for MCM Price



NTSC Generator with RGB

■ NTSC color bar pattern; eight bars of standard EIA colors ■ RGB outputs ■ Convergence patterns ■ Composite video output ■ RF output ■ Sync pulse output ■ 30Hz output useful for isolating servo problems in VCRs

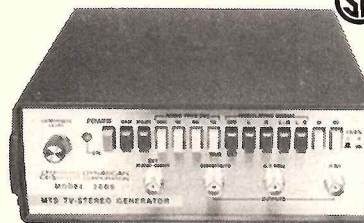


#73-430
B&K #1249 Call for MCM Price



MTS TV Stereo Generator

■ Provides TV stereo and SAP test signals ■ Simulates dbx modulation at three frequencies ■ Very cost effective ■ A "must" for servicing stereo TV receivers, VCRs and TV stereo adaptors



#73-435
B&K #2009 Call for MCM Price

IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



TENMA TEST LEADS

TENMA™ BNC to BNC Jumper Cables

- Made of high quality RG-58U cable with molded strain relief
- Available in 3', 6' and 12' lengths

Order #	Length	(1-9)	Price (10-49)	(50-up)
24-785	3'	\$2.85	\$2.70	\$2.50
24-790	6'	3.25	3.10	2.85
24-795	12'	4.40	4.20	3.95

TENMA™ BNC to Alligator Clip Test Lead

- Quality test lead with male BNC connector on one end and color coded alligator clips on the other end
- Molded strain relief
- 39" RG-58 shielded cable

#21-605		\$2.85 (1-9)	\$2.40 (10-24)	\$2.15 (25-49)
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TENMA™ BNC to IC Clip Test Lead

- Test lead with male BNC connector on one end and color coded IC clips on the other end
- 39" RG-58 shielded cable
- Molded strain relief

#21-600		\$3.50 (1-9)	\$3.00 (10-24)	\$2.70 (25-49)
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TENMA™ Test Lead Set

- 36" long color coded test leads (black and red) with IC clips on one end and banana plugs on the other end
- 20 gauge wire

#21-555		\$2.85 (1-9 sets)	\$2.40 (10-24 sets)	\$2.15 (25-49 sets)
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TENMA™ IC Clip Test Lead Set

- 36" long color coded test leads (black and red) with IC clips on each end
- 20 gauge wire

#21-560		\$2.95 (1-9 sets)	\$2.45 (10-24 sets)	\$2.25 (25-49 sets)
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TENMA™ IC Clips

- Solder type
- Spring loaded for positive connection
- 2 3/16"
- Available in black or red

#21-570 Black				
#21-565 Red		65¢ (1-9)	55¢ (10-24)	50¢ (25-49)

TENMA™ Mini IC Clips

- Solder type
- Spring loaded for positive connection
- 1 1/2"
- Available in black or red

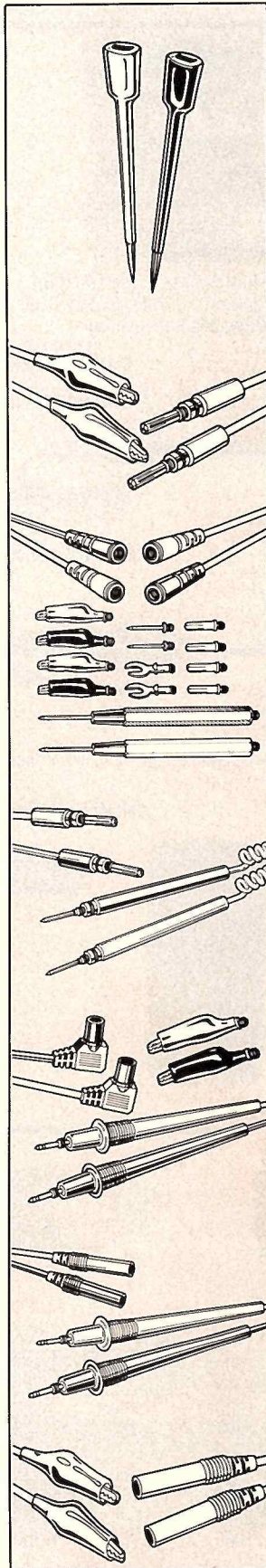
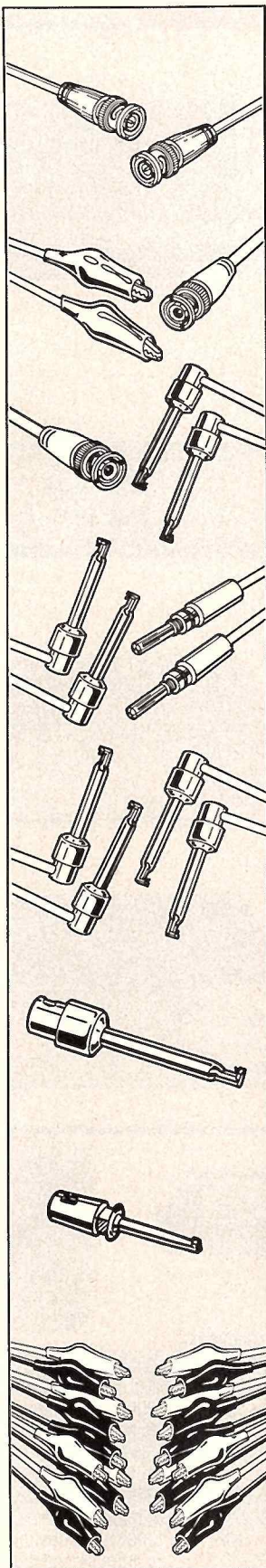
#21-735 Black				
#21-730 Red		70¢ (1-9)	55¢ (10-24)	50¢ (25-49)

TENMA™ Alligator Clip Test Lead Set

- 24" long
- Ten color coded leads
- Insulated alligator clips at each end
- Available in 24 or 20 gauge stranded wire

24 Gauge				
#21-350		\$3.05 (1-9 sets)	\$2.60 (10-24 sets)	\$2.45 (25 sets-up)

20 Gauge				
#21-355		\$4.95 (1-9 sets)	\$4.25 (10-24 sets)	\$3.80 (25-49 sets)



Versi-Probe Set

- Versi-Probes change quickly from probe to clip or clip to probe
- Total insulation guards against accidental shorts; even in crowded circuit areas
- Sharp point allows piercing of insulated PC boards and wires. Make your checks without removing insulation.
- Comfortable design
- All these features combine to make the Versi-Probe one of the handiest tools available for anyone using a test meter
- Two Versi-Probes per set (one black and one red)
- Made in USA

#21-540		\$5.80 (1-9 sets)	\$5.00 (10-24 sets)	\$4.50 (25-49 sets)
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TENMA™ Test Lead Set

- 36" long color coded leads (black and red) with alligator clips on one end and banana plugs on the other end
- 20 gauge wire

#21-1190		\$2.60 (1-9 sets)	\$2.15 (10-24 sets)	\$1.95 (25-49 sets)
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TENMA™ Universal Test Lead Kit

- Kit contains: ■ Two color coded leads (black and red) 36" long with screw-in base on each end
- 20 gauge wire
- Four insulated color coded alligator clips (black and red)
- Two color coded probes (black and red)
- Four banana plugs
- Two pin plugs
- Two spade lugs

#21-550		\$3.50 (1-9 kits)	\$3.00 (10-24 kits)	\$2.75 (25-49 kits)
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TENMA™ Coiled Test Lead Set

- 3' coiled lead stretches to over 6'
- Banana plugs fit most multimeters
- Color coded black and red
- 20 gauge wire

#21-670		\$3.45 (1-9 sets)	\$2.95 (10-24 sets)	\$2.65 (25-49 sets)
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TENMA™ Test Probe Set

- 48" color coded leads with 4 1/2" probes
- Two screw-on alligator clip adaptors included
- Right angle insulated banana plug connectors

#72-485		\$3.55 (set)
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TENMA™ Test Probe Set

- 48" color coded leads with 5 1/2" probes
- Insulated banana plug connectors

#72-052		\$3.25 (set)
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TENMA™ Short Test Lead Set

- 12" color coded leads with alligator clips
- For use when lead length may affect reading
- Insulated banana plug connectors

#72-041		\$2.50 (set)
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FOR IC TEST CLIPS SEE PAGE 40



Mueller

IC Test Clip Jumper Lead

■ 1 3/4" IC clip with 36" lead wire ■ 20 gauge lead wire with 105° C PVC insulation ■ Clips onto component leads up to .060" diameter

#69-015 Black

#69-020 Red \$4⁶²₍₁₋₉₎ \$3⁹⁷₍₁₀₋₉₉₎

Mini IC Clip Test Lead

■ 2 1/2" IC clip to stackable banana plug ■ 36" 20 gauge lead wire with 105° C PVC insulation ■ Clips onto component leads up to .060" diameter

#69-025 Black

#69-030 Red \$4⁵²₍₁₋₉₎ \$3⁸⁹₍₁₀₋₉₉₎

Mini IC Clip Test Lead

■ 2 1/2" IC clip with 36" lead wire stripped and tinned on one end ■ For making your own test leads ■ 20 gauge lead wire with 105° C PVC insulation ■ Clips onto component leads up to .060" diameter

#69-095 Black

#69-100 Red \$2⁶⁶₍₁₋₉₎ \$2²⁹₍₁₀₋₉₉₎

BNC to Mini IC Test Clips

■ 2 1/4" mini IC test clips to BNC male ■ BNC male has gold plated center contact and silver plated body ■ 36" shielded RG-58, 50ohm coaxial cable ■ Clips attach to component leads up to .060" diameter

#69-035 \$13⁹⁶₍₁₋₉₎ \$11⁶⁶₍₁₀₋₉₉₎

Mini Micro IC Test Clip Jumper Lead

■ Lead wire with 1 3/4" IC clip on each end ■ 20 gauge lead wire with 105° C PVC insulation ■ Clips onto component leads up to .025" diameter

#69-040 Black

#69-045 Red \$5⁷²₍₁₋₉₎ \$4⁹²₍₁₀₋₉₉₎

Mini Micro IC Clip Test Lead

■ 1 3/4" IC clip with 36" lead wire stripped and tinned on one end ■ 22 gauge lead wire with 105° C PVC insulation ■ Clips onto component leads up to .025" diameter

#69-105 Black

#69-110 Red \$3⁶⁶₍₁₋₉₎ \$3¹⁵₍₁₀₋₉₉₎

Banana Plug Jumper Lead

■ Lead wire with stackable banana plug on each end ■ 20 gauge lead wire with 105° C PVC insulation

#69-050 Black

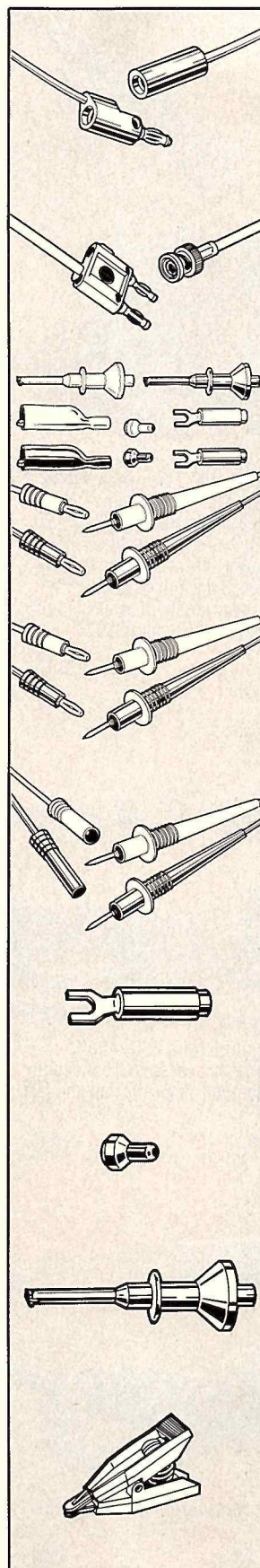
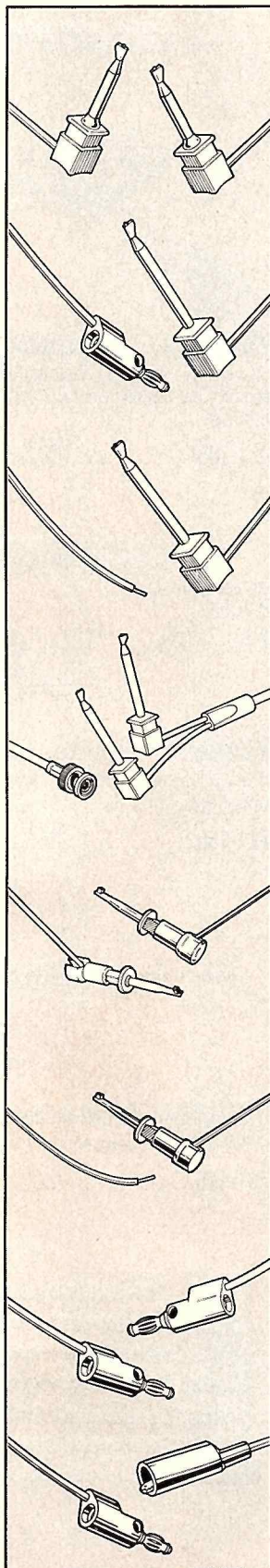
#69-055 Red \$5⁰²₍₁₋₉₎ \$4³²₍₁₀₋₉₉₎

Alligator Test Lead

■ Alligator clip to stackable banana plug ■ 36" 20 gauge lead wire with 105° C PVC insulation

#69-060 Black

#69-065 Red \$4⁵⁶₍₁₋₉₎ \$3⁹²₍₁₀₋₉₉₎



Banana Plug Extension Cable

■ Extends length of test leads by 36" ■ Stackable banana plug to in-line banana jack ■ 20 gauge wire with 105° C PVC insulation

#69-070 Black

#69-075 Red \$4⁵⁴₍₁₋₉₎ \$3⁹⁰₍₁₀₋₉₉₎

BNC to Banana Plug Cable

■ BNC male to dual stackable banana plug ■ 36" RG-58 coaxial cable ■ BNC male has gold plated center contact and silver plated body ■ Dual banana plug is nickel plated beryllium

#69-080 \$11⁹⁶₍₁₋₉₎ \$10²⁹₍₁₀₋₉₉₎

Multimeter Test Lead Kit

■ Kit contains: #69-090 test lead set along with spade lug, IC clip, alligator clip and insulator extension accessories ■ All accessories quickly thread onto probes

#69-005 \$21⁹⁰_(kit)

Multimeter Test Lead Set

■ Standard banana plug connector ■ 48" 18 gauge lead wire with 90° C EPR rubber insulation ■ Probe tip threaded to accept Mueller adaptors ■ Two test leads per set; black and red

#69-090 \$12³⁶_(1-9 sets) \$10⁶³_(10-99 sets)

Multimeter Test Lead Set

■ Shielded banana plug connector ■ 48" 18 gauge lead wire with 90° C EPR rubber insulation ■ Probe tip threaded to accept Mueller adaptors ■ Two test leads per set; black and red

#69-085 \$12³⁶_(1-9 sets) \$10⁶³_(10-99 sets)

Spade Lug

■ Threads on tip of test probe ■ Flame retardant ABS plastic ■ 1 1/2" length

#69-130 Black

#69-125 Red \$1⁷⁵₍₁₋₉₎ \$1³²₍₁₀₋₉₉₎

Insulator Extension

■ Threads on test probe tip to eliminate arc or shortage ■ Flame retardant ABS plastic

#69-140 Black

#69-135 Red 18¢₍₁₋₉₎ 13¢₍₁₀₋₉₉₎

Spring Hook Adaptor

■ Threads on tip of Mueller test probes ■ Spring-loaded hook ■ 2 1/2" length

#69-120 Black

#69-115 Red \$2⁰¹₍₁₋₉₎ \$1⁵⁰₍₁₀₋₉₉₎

Kelvin Clip

■ The jaws of a Kelvin Clip are electrically isolated from each other when open, and shorted to each other when closed ■ Allows quick testing of surface mount capacitors, resistors, etc. ■ 5/16" jaw opening ■ 2 5/8" length

#69-010 \$9⁰⁰₍₁₋₉₎ \$6⁷⁵₍₁₀₋₉₉₎



TENMA SOLDERING EQUIPMENT

Replacement Tips for #21-147

#21-148	3/64" Conical
#21-925	1/64" Long Conical
#21-926	1/8" Screwdriver
#21-927	3/64" Long Screwdriver
\$2.20 (1-9)	\$1.85 (10-24) \$1.70 (25-49)

Replacement Iron for #21-147

#21-149	
\$9.95 (1-9)	\$8.65 (10-24) \$7.75 (25-49)



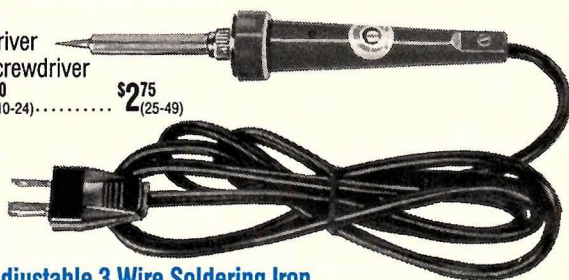
TENMA™ Soldering Station

■ Adjustable temperature range of 150°-420°C (300°-790°F) ■ Grounded tip for soldering static sensitive devices ■ LED power, heater and temperature indicators ■ Overheat protection with closed loop temperature control ■ Heat resistant soldering iron cord ■ Grounded 3 wire power cord ■ Auxiliary ground terminal ■ Built-in tray with cleaning sponge ■ Easily accessible fuse holder ■ Replaceable iron clad conical tip ■ Improved circuit design for greater temperature stability ■ Adjustable temperature, and a variety of available tips make this unit perfect for most soldering applications; including SMD

#21-147	\$56.55 (1-4) \$51.25 (5-up)
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Replacement Tips

#21-1025	Conical
#21-1030	Screwdriver
#21-1035	Long Screwdriver
\$3.60 (1-9)	\$3.10 (10-24) \$2.75 (25-49)



TENMA™ Adjustable 3 Wire Soldering Iron

■ 16-30W ■ Continuous phase controlled temperature from 250°-450°C (482°-842°F) ■ Temperature control in handle for easy access ■ Grounded tip for static sensitive devices ■ Rapid heating element for quick start up and fast recovery ■ LED power on light

#21-980	\$19.50 (1-9) \$18.10 (10-24) \$16.30 (25-49)
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Replacement Tip

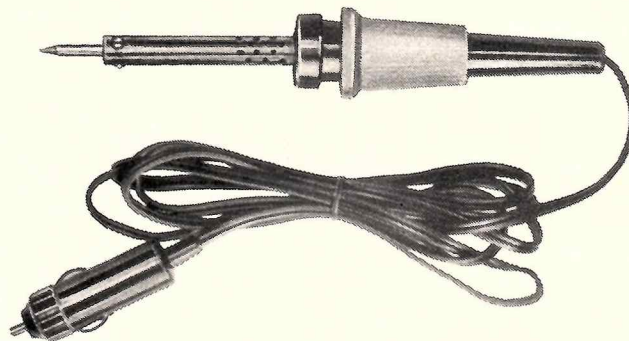
#21-435	
\$1.60 (1-9)	\$1.30 (10-24) \$1.15 (25-49)



TENMA™ 3 Wire Soldering Iron

■ 25W ■ Grounded tip for static sensitive components ■ Rubber handle with finger-ease grip ■ Screw-in, nickel-plated tip

#21-940	\$7.95 (1-9) \$6.95 (10-24) \$6.25 (25-49)
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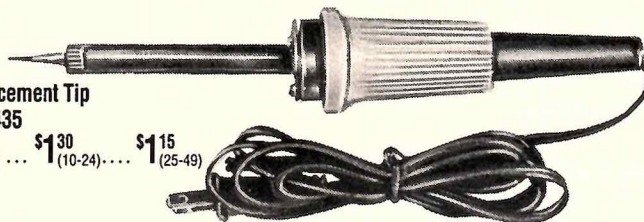
TENMA™ 12 Volt Soldering Iron

■ This iron is specially designed for the auto sound installer ■ Fast heat-up and recovery heating element ■ 7', 18 gauge cord with 12V cigarette lighter plug with fuse

#21-780	\$5.90 (1-9) \$5.15 (10-24) \$4.60 (25-49)
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Replacement Tip

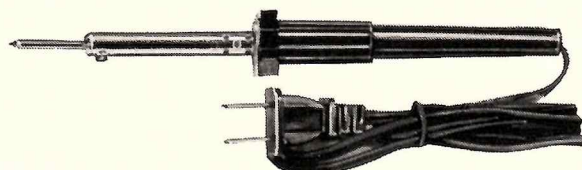
#21-435	
\$1.60 (1-9)	\$1.30 (10-24) \$1.15 (25-49)



TENMA™ High-Performance Soldering Iron

■ 25W ■ No slip rubber handle with finger-ease grip ■ Screw-in nickel-plated copper tip ■ Long life

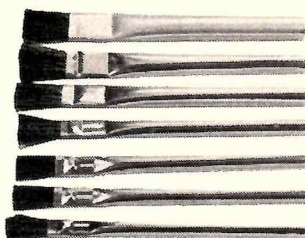
#21-160	\$6.95 (1-9) \$6.00 (10-24) \$5.40 (25-49)
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TENMA™ Pencil Soldering Iron

■ 30W ■ 117VAC ■ Heavy duty ■ 1/8" tip ■ Bakelite construction

#21-170	\$3.50 (1-9) \$3.00 (10-24) \$2.70 (25-49)
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Acid Brushes

■ Brushes for cleaning with solvents, applying coatings and a host of other uses ■ Holds up against chemicals such as Freon TF, Flux Solve, etc. ■ All brushes are 6" long ■ Seven piece assortment of different widths

#21-1290	\$4.35 (1-9) \$3.80 (10-up)
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FOR PROJECT ACCESSORIES SEE PAGE 46



ISO-TIP

Cordless Soldering Iron Kit

■ "Quick Charge" ISO-TIP recharges in 3-4½ hours ■ A partially discharged battery returns to full capacity in an hour or two ■ Long lasting, premium quality, nickel cadmium battery withstands high-rate charging without damage ■ Fully charged unit can make up to 125 solder joints per charge ■ 5-10 seconds average soldering heat time ■ Built-in worklight ■ #21-130 kit contains cordless soldering iron, recharging stand, #21-132, #21-134 tips, and instructions.

#21-130 \$46⁰⁵_(kit)

P.C. Drill Attachment

#21-136 \$21⁷⁰₍₁₋₄₎ \$20⁴⁰₍₅₋₉₎

Replacement Battery

#21-138 \$17⁴⁵₍₁₋₉₎ \$16²⁰₍₁₀₋₂₄₎

Replacement Tips

Thin Tip

#21-132

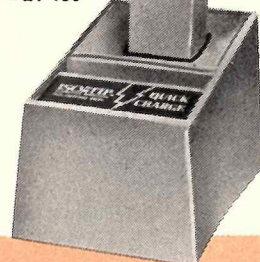
Wide Tip

#21-134

\$4⁹⁵_(ea.)



#21-136



Replacement Tips

Standard Tip

#21-440

Cone Tip

#21-895

1/25" Spade Tip

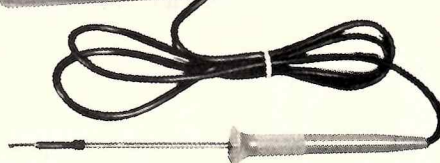
#21-900

1/8" Spade Tip

#21-155

\$5⁵⁰₍₁₋₉₎

\$4⁷⁰₍₁₀₋₂₄₎



Oryx Soldering Station

■ A low-wattage station complete with lightweight solder iron, transformer and accessories for precision work on delicate, miniaturized and other heat-sensitive components ■ 6W solder iron, tip cleaning sponge, sponge well and iron holder spring

#21-140 \$53⁷⁵₍₁₋₄₎ \$51⁶⁰₍₅₋₉₎ \$46⁴⁰₍₁₀₋₂₄₎

TENMA™ Soldering Stand

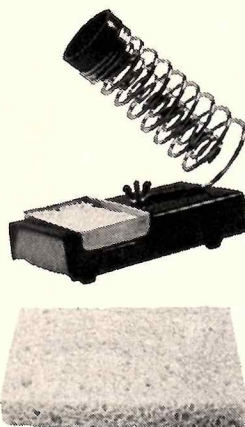
■ Heavy duty metal base ■ Sponge receptacle ■ Holds up to 1½" diameter iron

#21-180 \$5²⁵₍₁₋₉₎ \$4⁵⁵₍₁₀₋₂₄₎ \$4¹⁰₍₂₅₋₄₉₎

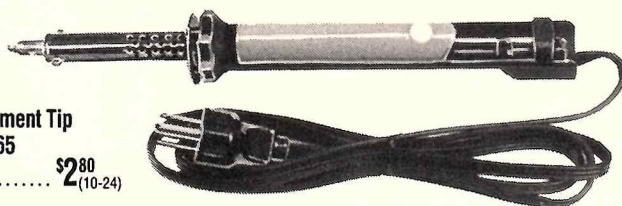
TENMA™ Soldering Sponge

■ Replacement sponge for cleaning flux, solder and other contaminants from iron tips ■ To be used with soldering stand or station ■ Dimensions: 2⅞" (W) x ¼" (H) x 1¾" (D)

#21-585
90¢₍₁₋₉₎ 70¢₍₁₀₋₂₄₎ 65¢₍₂₅₋₄₉₎



Desoldering Tools



Replacement Tip

#21-1065

\$3³⁵₍₁₋₉₎

\$2⁸⁰₍₁₀₋₂₄₎

TENMA™ Electric Desoldering Iron

■ Combines the ease and portability of a hand-held, manual desolder pump, with the performance of an electric desolder station ■ Vacuum chamber is easily removed for cleaning

#21-945 \$25⁸⁰₍₁₋₄₎ \$24²⁵₍₅₋₉₎ \$21⁸⁰₍₁₀₋₂₄₎



Replacement Tip

#21-595

\$1⁷⁵₍₁₋₉₎

\$1³⁵₍₁₀₋₂₄₎

TENMA™ Anti-Static Desoldering Tool

■ Rugged metal construction ■ Anti-static tip ■ Nozzle cleaner ■ Lightweight and compact ■ Disassembles easily for cleaning ■ Dimensions: 7¾" (L) x ¾" (Dia)

#21-590 \$6⁰⁵₍₁₋₉₎ \$5²⁵₍₁₀₋₂₄₎ \$4⁷⁵₍₂₅₋₄₉₎



Replacement Tip

#21-215

\$3⁵⁰₍₁₋₉₎

\$3²⁵₍₁₀₋₂₄₎

Soldapult III Solder Remover

■ Removes solder from soldered junctions ■ Just heat solder, release inner prod and solder enters the tube (EDSYN PT-109)

#21-210 \$16⁵⁰₍₁₋₉₎ \$15⁴⁰₍₁₀₋₂₄₎ \$13⁹⁵₍₂₅₋₄₉₎



TENMA™ Desoldering Bulb

■ Removes solder quickly and easily with vacuum action ■ 3 oz. rubber bulb ■ Long-lasting teflon tip

#21-300 \$2⁸⁰₍₁₋₉₎ \$2⁷⁰₍₁₀₋₂₄₎ \$2⁶⁰₍₂₅₋₄₉₎



Fast and accurate
order processing!



SOLDERING EQUIPMENT

TENMA Solder

- High quality .040" diameter solder ■ 60/40
- Available in 6 oz. and 1 lb. spools

6 oz., 100'

#21-1045 \$4²⁵₍₁₋₉₎ \$3⁴⁰₍₁₀₋₂₄₎ \$3¹⁰_(25-up)

1 lb., 260'

#21-1040 \$9⁵⁰₍₁₋₉₎ \$8²⁵₍₁₀₋₂₄₎ \$7⁴⁰₍₂₅₋₄₉₎



Soldering Paste

- A strong flux for soldering joints that require additional flux or when using fluxless solder
- Excellent for use as a tip cleaner ■ 43 grams

#20-890 \$3⁸⁰₍₁₋₅₎ \$3³⁰₍₆₋₁₁₎ \$3⁰⁰₍₁₂₋₂₃₎

TENMA Tube Solder

- Tube type dispenser makes holding solder easier ■ 7' of high quality .040" diameter solder ■ 60/40

#21-1050 \$1⁴⁵₍₁₋₉₎ \$1¹⁵₍₁₀₋₂₄₎ \$1⁰⁵₍₂₅₋₄₉₎



Liquid Solder-Flux

- Non-corrosive liquid solder flux for electronic and communication work ■ 2 oz. bottle with brush

#20-1100 \$3⁸⁵₍₁₋₅₎ \$3³⁵₍₆₋₁₁₎ \$2⁹⁵₍₁₂₋₂₃₎



Ersin Solder

- Solders faster ■ Wets more completely ■ We believe this is the best solder on the market today ■ 60/40 ■ Five separate cores of flux provide rapid melting for perfect solder joints every time

2 oz., 245', .015 Diameter

#21-1105 \$9³⁵₍₁₋₉₎ \$8¹⁵₍₁₀₋₂₄₎

6 oz., 100', .040 Diameter

#21-330 \$6⁰⁰₍₁₋₉₎ \$4⁷⁵₍₁₀₋₂₄₎

1 lb., 180', .048 Diameter

#21-340 \$12⁹⁰₍₁₋₉₎ \$12⁰⁰₍₁₀₋₂₄₎



3S-Wick Desoldering Wick

- Finely woven copper braid treated with pure non-activated rosin flux ■ 3S-Wick desolders joints rapidly without corrosive residue

Order #	Description (Label)	(1-9)	Price (10-24)	(25-49)
21-1260	.05" x 5' (Yellow)	\$1.40	\$1.20	\$.95
21-1265	.05" x 50' (Yellow)	8.50	7.95	7.25
21-1270	.075" x 5' (Green)	1.50	1.35	1.10
21-1275	.075" x 50' (Green)	9.75	8.95	8.05
21-1280	.100" x 5' (Blue)	1.75	1.50	1.25
21-1285	.100" x 50' (Blue)	10.95	9.95	8.95



Non-Residue Solder



- This new formulated non-residue solder reduces time spent cleaning flux off of circuit boards and soldering iron tips ■ 21 gauge (.031") ■ 63/37 ■ Meets Mil Spec. #P28809 ■ 1/2 lb. spool

#21-1570 \$10⁹⁵₍₁₋₉₎ \$10¹⁵₍₁₀₋₂₄₎



TENMA Desoldering Wick

- Quality braided solder remover ■ 5' (L) x .1" (Dia)

#21-327 \$1²⁵₍₁₋₉₎ \$1⁰⁰₍₁₀₋₂₄₎ 90¢₍₂₅₋₄₉₎



Chem-Wik Lite

- Desoldering wick ■ Finely woven copper braid treated with a pure non-activated rosin flux

Order #	Description (Label)	(1-9)	Price (10-24)	(25-49)
21-1005	.05" x 5' (Yellow)	\$2.09	\$1.82	\$1.62
21-1010	.05" x 100' (Yellow)	25.00	23.55	21.15
21-310	.075" x 5.5' (Green)	2.09	1.82	1.62
21-315	.075" x 100' (Green)	25.00	23.55	21.15
21-320	.1" x 5.5' (Blue)	2.32	2.02	1.79
21-325	.1" x 100' (Blue)	27.00	25.45	22.85



Solder Tip Cleaner

- The finest tip cleaner available ■ Helps restore solder tips by removing old flux and solder ■ 5 oz. can with two-sided tape allows placement on or near soldering station

#21-1075 \$5⁰⁰₍₁₋₉₎ \$4⁵⁰_(10-up)

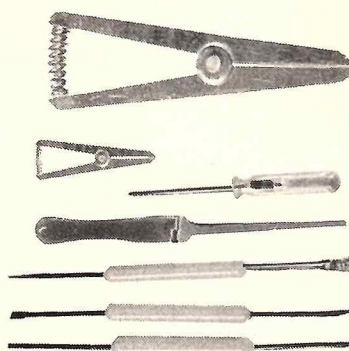


Eutectic Solder

- For surface mount components ■ Low-melt solder is the best blend of tin/lead for melting at the lowest possible temperature (361°F) ■ 63/37 ■ Organic rosin core

1/2 lb., 200', .032" Diameter

#21-1185 \$8³⁰₍₁₋₉₎ \$7²⁰₍₁₀₋₂₄₎ \$6⁵⁰₍₂₅₋₄₉₎



Clip-on Heat Sink Set

- Five spring loaded aluminum heat sinks ■ Just clip onto lead of heat sensitive component to solder ■ Dissipates heat safely without damaging component ■ Five per set

#21-675... \$2⁵⁰_(1-9 sets) ... \$2¹⁰_(10-24 sets) ... \$1⁹⁰_(25-49 sets)

Solder Aid Kit

- Six piece kit includes heat sink, self-closing tweezers, small Phillips screwdriver, brush/scraper, pointed/slotted probe and curved point/scraper

#21-665 \$3⁹⁰_(1-9 kits) \$3⁴⁵_(10 kits-up)



CALL TOLL FREE 1-800-543-4330

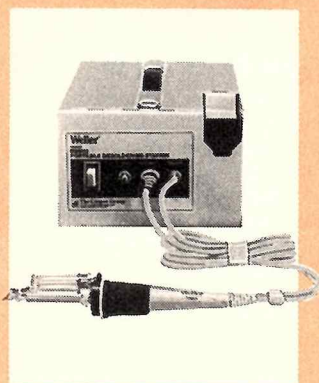
IN CANADA CALL TOLL FREE
1-800-824-9491



Weller Portable Desoldering Station

- The DS-600 is a portable power desoldering station that is completely self contained
- Designed for applications where portability or a lack of a suitable vacuum source requires a self contained unit
- Lighted on/off switch
- Circuit breaker protected
- Comes with carrying handle, power storage cord and built-in iron storage compartment
- 120V/60Hz

#96-345 \$525⁰⁰ (ea.)



Weller WTCPS

- A transformer powered soldering station complete with a lightweight, head insulated, low wattage soldering pencil
- Maximum tip temperature is controlled by Weller's special "closed loop" method
- Grounded tip
- Iron features a stainless steel plug-in heating element and a non-burning silicone rubber cord
- PTA7 1/16" tip included

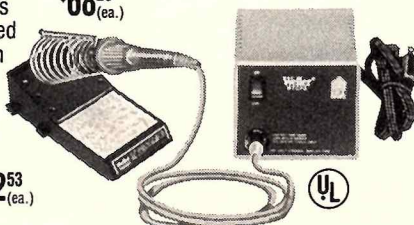
#96-030 \$122⁵³ (ea.)

WTCPS Replacement Heating Element

#96-120
\$11⁹² (1-9)

WTCPS Replacement Iron

#96-350
\$68²⁰ (ea.)



Weller EC3001

- Electronically controlled variable minisoldering station
- Dial controlled in 10°F steps
- Illuminated on/off switch
- Isolated 24VAC power unit used to drive heating element
- Solder tip is grounded through power unit's 3 wire cord
- EPH 101 tip included

#96-010 \$179⁹⁵ (ea.)



Weller 8200PK Universal Soldering Gun Kit

- All-purpose gun with trigger selectable high (140W) or low (100W) heat
- Ready to solder in six seconds
- Built-in light illuminates work area
- Balance pistol-grip design
- Soldering gun packed in plastic case with one soldering tip, one sealing tip, one cutting tip, flux brush, soldering aid tool, coil of 40/60 rosin core solder and soldering hints booklet

#96-065 \$32⁸¹ (1-9 kits) \$30¹⁹ (10-24 kits)



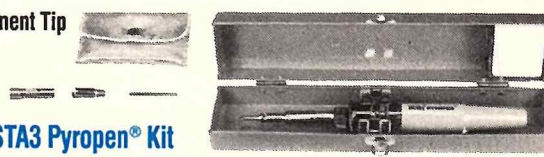
Weller 7200PK Lightweight Soldering Gun Kit

- Small, lightweight soldering gun for fast soldering jobs
- Fingertip trigger for instant heat
- Soldering gun packed in convenient plastic case with two tips and a coil of 40/60 rosin core solder
- 75W (not shown)

#96-060 \$23⁶⁰ (1-9 kits) \$21⁷² (10-24 kits)

WSTA3 Replacement Tip

#96-335
\$8²⁵ (ea.)



Weller WSTA3 Pyropen® Kit

- Butane-powered cordless soldering iron
- Variable temperature: 392°F-932°F
- Ready to solder in 30 seconds
- Sturdy metal tank contains enough fuel for up to three hours of use
- Kit contains: Pyropen, soldering tip, torch ejector, heat tip, tip bag, spanner, solder sponge, and iron holder, in a metal box

#96-055 \$72¹⁰ (kit)

WST2 Replacement Tip

#96-340
\$8²⁵ (ea.)



Weller WST2 Pyropen® Junior

- A butane-powered soldering iron that is small enough to go anywhere
- Variable temperature: 392°F-842°F
- Ready to solder in 30 seconds

#96-330 \$62⁶³ (ea.)



Weller Marksman® Soldering Irons

- Quality soldering irons with stainless steel barrel
- Replaceable nickel-plated copper tip
- Heat and impact resistant handle

Order #	Weller #	Type	Price	
			(1-9)	(10-24)
96-080	SP12	12W Mini Soldering Iron	\$10.76	\$9.90
96-305	WP25P	20W Soldering Iron	27.06	24.89
96-085	SP23	25W Soldering Iron	10.48	9.64
96-090	SP40	40W Soldering Iron	13.93	12.82
96-110	SP23HK	25W Hot Knife Kit	16.26	14.96

Weller Replacement Parts

Tips for EC3001

- Tips are made of a copper core which is electro-plated with iron to extend the lifetime of tip

Order #	Weller #	Type	Size	Reach	Price	
					(1-9)	(10-24)
96-015	EPH101	Micropoint	1/64"	7/16"	\$5.20	\$4.73
96-020	EPH106	Screwdriver	1/16"	7/16"	5.20	4.73
96-025	EPH109	Conical	1/31"	7/16"	5.20	4.73

Tips for WTCPS

- Iron plated copper tips
- 700°F control temperature

96-035	PTA7	Screwdriver	1/16"	5/8"	\$5.39	\$4.91
96-040	PTB7	Screwdriver	3/32"	5/8"	5.39	4.91
96-045	PTD7	Screwdriver	3/16"	3/4"	5.39	4.91
96-050	PTO7	Long Conical	1/32"	1"	5.39	4.91

Tips for Marksman Iron

- Nickel-plated copper

96-100	MT1 SP-23	Conical	1/8"	—	\$3.34	\$3.04
96-105	MT10 SP-40	Chisel	1/4"	—	5.57	5.13
96-095	MT70 SP-12	Conical	1/8"	—	3.34	3.04
96-115	HK11 SP-23	Blade Chuck	1/8"	—	5.70	5.19

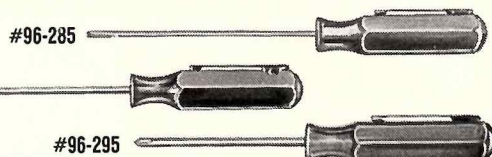
Soldering Gun Tips

96-075	8125	Iron and Tin Plated	—	—	\$3.65	\$3.32
96-070	7135	Copper	—	—	3.65	3.32
96-125	7194	Replacement Bulb	—	—	1.47	1.34

Tips for WP25P and WP40P

- Iron plated copper tips with anti-wetting chrome coating

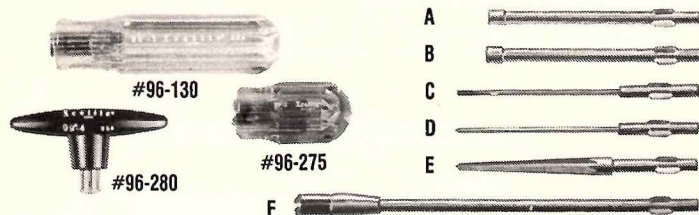
96-310	ST1	Screwdriver	1/16"	—	\$4.75	\$4.33
96-315	ST3	Screwdriver	1/8"	—	4.75	4.33
96-320	ST5	Single Flat	1/32"	—	4.75	4.33
96-325	ST8	Narrow Screwdriver	1/16"	—	4.75	4.33



Xcelite Pocket Screwdrivers

■ Pocket screwdrivers with clip attached ■ Chrome vanadium steel blades; plated for protection ■ Available in flat blade and Phillips blade types

Order #	Mfg #	Blade	Size (overall length)	Price (1-9)	Price (10-24)
96-285	R3323V	3/32" Flat	5 1/4"	\$2.13	\$1.94
96-290	R183V	1/8" Flat	5 1/4"	2.27	2.07
96-295	P-12-SV	1/8" Phillips	4 1/4"	2.48	2.26



Xcelite Series 99 Handles, Blades and Shanks

■ Series 99 handles, blades and shanks on this page are available separately
■ Allows gradual accumulation of items needed for individual requirements

Handles

Order #	Mfg #	Type	Size	Price (1-9)	Price (10-24)
96-130	99-1V	Regular	4 1/8" (L) x 1 3/16" (Dia.)	\$3.57	\$3.25
96-275	99-3V	Stubby	3 1/8" (L) x 1 3/16" (Dia.)	3.40	3.09
96-280	99-4V	Tee	3 1/2" x 1 5/8"	4.66	4.24

A. Nutdriver Shanks

Order #	Mfg #	Size	Length	Price (1-9)	Price (10-24)
96-135	99-6V	3/16"	3 5/8"	\$3.40	\$3.09
96-140	99-7V	7/32"	3 5/8"	3.40	3.09
96-145	99-8V	1/4"	3 5/8"	3.40	3.09
96-150	99-9V	9/32"	3 5/8"	3.40	3.09
96-155	99-10V	5/16"	3 5/8"	3.40	3.09
96-160	99-11V	11/32"	3 5/8"	3.55	3.23
96-165	99-12V	3/8"	3 5/8"	3.55	3.23

B. Magnetic Nutdriver Shanks

96-170	99-8MV	1/4"	3 5/8"	\$4.73	\$4.31
96-175	99-10MV	5/16"	3 5/8"	4.73	4.31

C. Flat Blades

96-180	99-125V	1/8"	4"	\$3.40	\$3.09
96-185	99-811V	3/16"	4"	3.40	3.09
96-190	99-250V	1/4"	4"	3.40	3.09
96-195	99-312V	5/16"	4"	3.40	3.09

D. Phillips Type Blades

96-200	99-820V	No. 0	4"	\$3.40	\$3.09
96-205	99-821V	No. 1	4"	3.40	3.09
96-210	99-822V	No. 2	4"	3.40	3.09

E. Reamer Shank ■ For enlarging holes

96-215	99-38V	1/8" x 3/8"	4"	\$7.92	\$7.28
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F. 99-X10V Extension

■ 7" long ■ Adds length to all of the above blades and shanks

#96-220	\$5.04 (1-9)	\$4.59 (10-24)
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Xcelite

99-SM Roll-up Tool Kit

■ Versatile 23 piece kit in a durable, roll-up plastic coated canvas case ■ Provides a variety of quick change tools

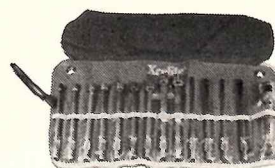
■ Kit contains: Regular and stubby handles, nine regular and three stubby nutdrivers (3/16"-1/2"), two slotted and two Phillips screwdrivers, a reamer, an extension, a long nose plier, 5" diagonal cutter and a 6" adjustable wrench in roll-up pouch

#96-225	\$108.78 (kit)
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LL-8-M Magnetic 1/4" Nutdriver

■ Extra long 16 3/4" shaft ■ Magnet inserted in socket holds screws

#96-270	\$17.09 (1-9)	\$15.72 (10-24)	\$14.46 (25-up)
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99-PR Nut and Screwdriver Kit

■ Roll-up kit containing a 99 series handle, nine nutdriver blades, and four screwdriver blades
■ Canvas case available separately #96-230

#96-260	\$49.70 (1-9 kits)	\$46.22 (10-24 kits)
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Case #96-230	\$8.48 (1-9)	\$7.80 (10-24)
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R1810 Screwdriver

■ 1/8" flat screwdriver with 10" long blade

#96-300	\$3.76 (1-9)	\$3.42 (10-24)
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PS-120V Nutdriver Set

■ Ten color-coded nutdrivers and a torque amplifier handle in a convenient see-through plastic case ■ Sizes: 3/32"-3/8"

#96-265	\$26.26 (1-9 sets)	\$24.16 (10-24 sets)
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102SV Wire Stripper/Cutter

■ Shape fits hand comfortably ■ Hardened steel throughout ■ Adjustable cam to set tool for use on various wire gauges ■ Safety lock

#96-250	\$8.64 (1-9)	\$7.95 (10-24)
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XL-75 Offset Ratchet Screwdriver Kit

■ Five piece set in see-through plastic pouch
■ Kit contains: One Phillips #1, one Phillips #2, one 3/16" slotted and one 1/4" slotted screwdriver

#96-255	\$16.10 (1-9 kits)	\$14.81 (10-24 kits)
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51CGV Long Nose Pliers/Cutter

■ Forged alloy steel ■ Serrated jaws ■ Red plastic cushion grips ■ 6" long

#96-245	\$14.60 (1-9)	\$13.43 (10-24)
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55CGV Diagonal Cutters

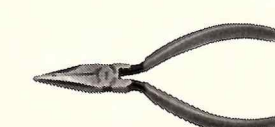
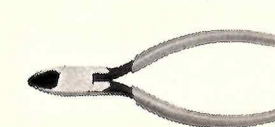
■ Forged alloy steel ■ Hand-honed and mated cutting edges ■ Red plastic cushion grips ■ 5" long

#96-235	\$14.06 (1-9)	\$12.93 (10-24)
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41CGV Long Nose Pliers

■ Serrated jaws ■ Forged alloy steel ■ Red plastic cushion grips ■ Midjet pliers; 4" long

#96-240	\$12.68 (1-9)	\$11.67 (10-24)
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UNGAR

NEW

Micro Series Shearcutter

- Very popular general purpose cutter
- Equipped with flat spring ■ 5" length

#22-1050 \$4.95 (1-9) \$4.75 (10-up)

Micro Series Shearcutter

- Rugged cutter for tough jobs such as cutting IC pins, cables and harnesses
- 5 1/2" length

#22-1055 \$8.50 (1-9) \$8.25 (10-up)

Micro Series Pliers

- Thin profile, long reach ■ Serrated jaws
- 5 1/2" length

#22-1060 \$7.95 (1-9) \$7.75 (10-up)

Super Series Shearcutter

- Special heat treating makes this tool exceptionally tough and durable ■ Plated for added corrosion protection ■ Equipped with flat spring and safety clip ■ 5" length

#22-1065 \$8.95 (1-9) \$8.75 (10-up)

Super Series Pliers

- Unique design, heat treated for added strength ■ Plated to resist corrosion
- Serrated jaws ■ 5 1/2" length

#22-1070 \$9.95 (1-9) \$9.75 (10-up)

Flux Dispenser

- Self-standing, no-spill, polyethylene squeeze bottle dispenses one drop of liquid flux, oil or solvent through stainless steel hypodermic needle ■ Bottle holds 2 oz. of liquid ■ Three needle sizes included: .010", .020" and .054"

#22-1075 \$2.75 (1-9) \$2.50 (10-up)

Solvent Dispenser

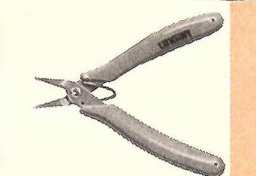
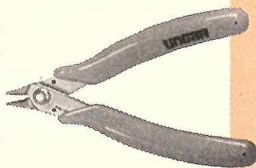
- Scrub-It solvent dispenser with horse hair brush for anti-static operations
- Nylon/stainless steel uni-flow control valve dispenses exact amount of solvent
- Great for cleaning static sensitive PC boards

#22-1080 \$7.75 (1-9) \$7.50 (10-up)

Solder Mate

- Eliminates operator downtime by providing continuous solder wire availability ■ Holds 1 lb. solder spool

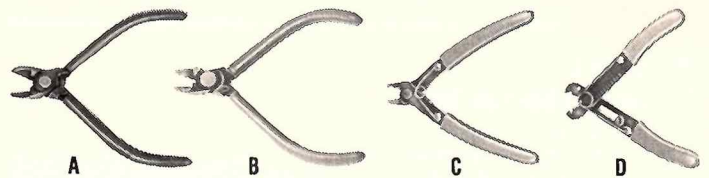
#22-1085 \$15.50 (1-9) \$14.95 (10-up)



Springhook Tool

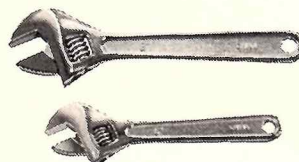
- Used for manipulating belts and springs ■ One side of the tool has a hook for pulling, and the other has a notched screwdriver blade for pushing ■ Metal construction ■ 8" length

#21-1085 \$5.40 (1-9) \$4.65 (10-24) \$4.20 (25-49)



Cutters

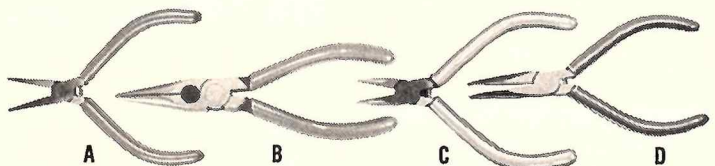
Fig.	Order #	Type	Length	Price (1-9)	Price (10-up)
A	22-570	Mini Diagonal	4"	\$4.75	\$4.25
B	22-595	Diagonal	5"	4.10	3.60
C	22-540	Wire Cutter	5 1/4"	2.95	2.50
D	22-555	Stripper/Cutter	5 1/4"	2.70	2.45



Adjustable Wrenches

- Drop-forged nickel chrome moly steel
- Fully polished

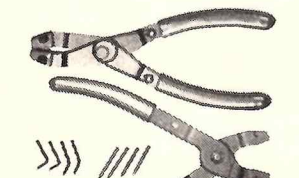
Order #	Length	Price
22-865	6"	\$5.65
22-870	8"	6.90



Pliers

- Drop forged steel ■ Serrated jaws for secure grip ■ Return spring
- Cushioned grip

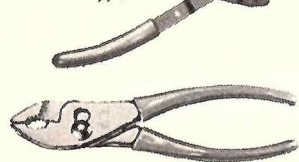
Fig.	Order #	Type	Length	Price (1-9)	Price (10-up)
A	22-590	Duck Bill	4 3/4"	\$4.05	\$3.50
B	22-815	Long Nose	6"	5.95	5.40
C	22-575	Mini Needle Nose	4 1/2"	4.60	3.95
D	22-580	Mini Curved Needle Nose	4 3/4"	4.50	3.95



Snap Ring Plier Set

- Internal and external snap ring pliers plus eight interchangeable tips ■ Tips packed in a compact, plastic box

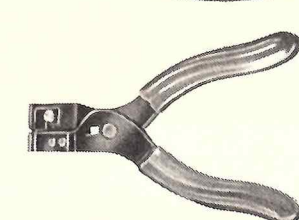
#22-350 \$9.95 (set)



Slip Joint Pliers

- Chrome plated ■ Drop forged steel
- Cushioned grip ■ 6" length

#22-820 \$3.75 (1-9) \$3.25 (10-up)



Cable Tie Pliers

- Quickly cinches cable ties and cuts excess ■ Return spring ■ Cushioned grip
- 5 1/4" length

#22-735 \$12.70 (1-9) \$10.80 (10-up)



Cord Strain Relief Pliers

- Specially designed for installing and removing strain relief bushings ■ Durable steel construction; suitable for production use ■ Return spring ■ Cushioned grip
- 7 3/4" length

#22-790 \$9.95 (1-9) \$9.50 (10-up)

IN CANADA CALL TOLL FREE

1-800-824-9491

CALL TOLL FREE 1-800-543-4330





TOOLS

Crimp Tools



"F" Connector Insertion Tool

- Designed to make installing "F" connectors fast and easy ■ Lessens danger of sticking center conductor into one's fingers ■ Thread "F" connector onto tool, which acts as a handle for better leverage
- Made of hardened steel ■ 5" length



#22-1030 \$12⁹⁵₍₁₋₃₎ \$11⁹⁵_(4-up)

Hex Type

- For use on all RG-59 and RG-6 connectors with up to a 1/2" ferrule



#22-100 \$16⁶⁵₍₁₋₃₎ \$14⁹⁵_(4-up)

Hex Type with 1.7mm Crimp

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule ■ 1.7mm standard crimp for crimping center conductor on BNC and TNC connectors



#22-925 \$15⁵⁰₍₁₋₃₎ \$14⁰⁰_(4-up)

Ratcheting Hex Type for RG-58/59

- Ratcheting action holds connector securely while crimping ■ Cushion grip
- Locks in the closed position for storage
- 1.7mm hex for crimping center conductor on BNC or TNC

Replacement Die

#22-785

\$8⁴⁵_(ea.)



#22-780 \$22²⁵_(ea.)

Standard

- Comfortable, easy-to-use hand grip
- Makes fast secure crimps on RG-59 and RG-6 connectors



#22-110 \$4⁷⁰₍₁₋₉₎ \$4²⁰_(10-up)

Multi-Purpose Tool

- A must for every tool box ■ Cuts ■ Strips
- Crimps ■ Bolt cutter



#22-120 \$2⁷⁵₍₁₋₉₎ \$2³⁰_(10-up)

Heavy Duty Crimp Tool

- Crimps insulated/non-insulated and ignition ■ Bolt cutter ■ Cuts and strips



#22-1005 \$3⁹⁵₍₁₋₉₎ \$3⁴⁵_(10-up)

Ratcheting Crimp Tool

- Crimps insulated solderless terminals for wire gauges 22-10 ■ Ratcheting action ensures a full crimp cycle for positive connections
- Locks in the closed position for storage

Replacement Die

#22-775

\$7⁵⁰_(ea.)



#22-770 \$18⁵⁰_(ea.)

"D" Connector Crimp Tool

- Crimps pins and sockets for "D" sub connectors, telephone spade lugs, and solderless lugs for 10-22 AWG wire



#22-795 \$8⁰⁰₍₁₋₉₎ \$7⁵⁰_(10-up)

Replacement Blades (Three Sets)

#22-985

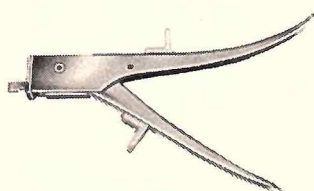
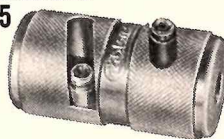
\$3¹⁰_(1-9 sets) \$2⁸⁵_(10 sets-up)



Replacement Blades

#22-485

\$7²⁵_(pr.)



Rotary Coax Cable Stripper

- Quickly strips RG-58U and RG-59U cable ■ Attached hex key wrench for fine tuning the cutting blades ■ Drop resistant plastic housing

#22-980 \$13⁷⁵_(ea.)

Cablematic Coax Cable Stripper

- Prepares cable for installation of "F" connectors on RG-59 size cable

#22-480 \$16⁵⁰_(ea.)

Nibbling Tool

- This cutter is great for modifying project boxes or similar items ■ Cuts up to 18 gauge steel, 1/16" aluminum, copper, or plastic

#22-605 \$8⁹⁵_(ea.)

Rivet Gun

- For use with 2.4mm (3/32"), 3.2mm (1/8"), 4.0mm (5/32") and 4.8mm (3/16") rivets
- Easy one-handed operation

#22-805 \$7⁹⁵_(ea.)

Scratch Awl

- Chrome vanadium steel blade
- Hardwood handle ■ Fine point for precision scribing ■ 7" overall length

#22-850 \$2⁶⁰_(ea.)

Automatic Center Punch

- No need to strike punch, simply depress handle ■ Alloy steel point ■ Knurled steel body ■ 5 1/2" (L) x 1/2" (Dia.)

#22-845 \$5⁹⁵_(ea.)

Drill Bits



#22-020



#22-030



#22-1000

3/8" Drill Bits

- Great for antenna and cable installation ■ 18" length

Order #	Type	(1-9)	Price (10-up)
22-020	Masonry (carbide tip)	\$13.85	\$13.25
22-030	Wood	10.45	9.85

Wood Drill Bit Set

- 13 piece set with a plastic carrying case ■ Set contains: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64" and 1/4" sizes

#22-1000 \$5³⁰_(1-3 sets) \$4⁷⁵_(4 sets-up)



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1-800-824-9491

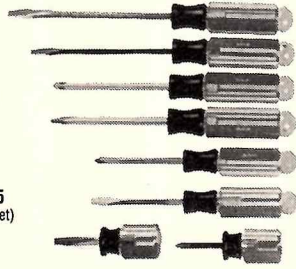


Screwdriver Sets

Eight Piece Set

- Chrome vanadium square shanks
- Hardened, tempered ■ Fluted handles for sure grip
- Five flat blade sizes: 5/16" x 6", 1/4" x 5", 1/4" x 4", 3/16" x 3" and a 1/4" x 1 1/2" stubby
- Three Phillips sizes: #2 x 4", #1 x 3" and a #2 x 1 1/2" stubby

#22-860 \$14⁹⁵_(set)



Magnetic Ratcheting Screwdriver

- Three position ratchet switch allows ratchet to function clockwise, counter clockwise, and locked ■ Includes two Phillips bits (#1 and #2), and two flat bits (5mm and 7mm) ■ 7 1/2" overall length

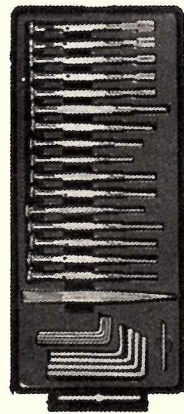
#22-995 \$6⁹⁵₍₁₋₉₎ \$6⁴⁵_(10-up)



25 Piece Precision Tool Set

- A must in every TV and stereo repair shop ■ Four piece flat blades: 1.4, 1.8, 2.4, 3.0mm ■ Five piece nut drivers: 3.0, 3.5, 4.0, 4.5, 5mm ■ Three piece Phillips: No. 00, No. 0, No. 1 ■ Three piece hex key wrench: 1.5, 2.0, 2.5mm ■ Eight piece hex key: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0mm ■ One piece tweezer ■ One piece awl ■ One piece cross bar ■ Storage case included

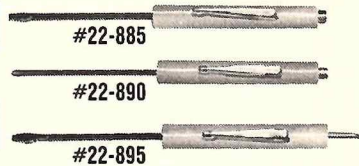
#22-190 \$10⁸⁰_(1-9 sets) \$9²⁵_(10 sets-up)



Pocket Screwdrivers

- Great general purpose screwdriver, perfect for adjustments, alignments and many other miscellaneous applications ■ Pocket sized with clip attached
- Three types available

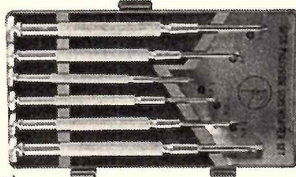
Order #/Blade	Price	
	(1-9)	(10-up)
22-885 Flat with magnet	\$1.90	\$1.50
22-890 Phillips with magnet	1.90	1.50
22-895 Flat with Phillips top	1.30	1.05



Six Piece Precision Assorted Set

- Two piece Phillips heads: No. 0, No. 1 ■ Four piece flat blades: 1.4, 2.0, 2.4, 2.9mm ■ Convenient storage case

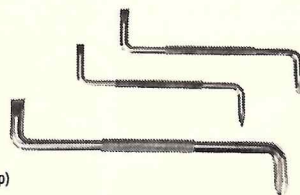
#22-140 \$2¹⁰_(1-9 sets) \$1⁸⁵_(10 sets-up)



Offset Screwdriver Set

- For hard to reach screws
- One #3 Phillips to 5/16" flat blade
- One #2 Phillips to 1/4" flat blade
- One #1 Phillips to 3/16" flat blade

#22-810 \$3¹⁵_(1-9 sets) \$2⁷⁰_(10 sets-up)

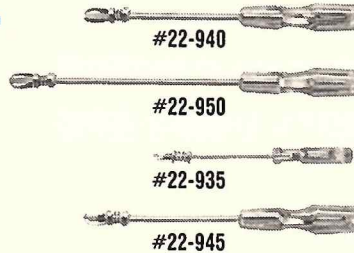


#22-940

#22-950

#22-935

#22-945



Replacement Battery

#21-1550
\$12⁵⁰_(ea)



Screw Holding Screwdrivers

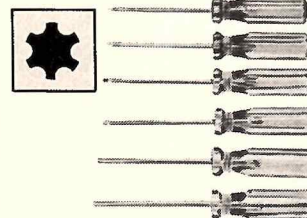
- Great for starting screws in hard to reach places ■ Spring loaded mechanism holds screw firmly in place ■ Available in Phillips or flat blade heads

Order #	Blade	Length	Price	
			(1-9)	(10-up)
22-940	Flat	7"	\$2.75	\$2.40
22-950	Flat	9"	2.75	2.40
22-935	Phillips	5"	2.50	2.25
22-945	Phillips	7"	2.95	2.45

45 Piece Rechargeable Cordless Screwdriver Kit

- A complete set of bits and sockets make this screwdriver kit a great tool for shop use ■ Molded case keeps tools organized
- Ni-Cad battery recharges directly from outlet, rechargeable up to 800 times
- Operates up to 30 minutes on full charge
- Six torque settings in forward or reverse
- 170 RPM maximum ■ 1/4" keyless hex collet ■ Kit contains: One chargeable screwdriver, one AC adaptor, two batteries, one bit holder, one socket adaptor, four slotted tips, four Phillips tips, four Robertson tips, seven torx tips, seven hex tips, seven sockets (mm), seven sockets (SAE) all in a molded case

#21-1545 \$49⁹⁵_(kit)



Six Piece Torx Type Driver Set

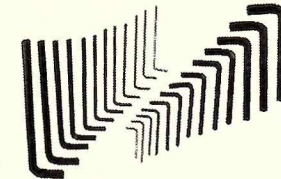
- Torx screws are popular on appliances and electronic products ■ Forged alloy blades ■ Large break resistant plastic handles ■ Six of the most popular sizes: T-10, T-15, T-20, T-25, T-27, and T-30

#22-830 \$9⁰⁵_(1-9 sets) \$8⁴⁰_(10 sets-up)

25 Piece Hex Key Set

- Industrial chrome moly steel ■ Comes in vinyl pouch ■ 12 S.A.E. long arm sizes, 3/8" through 1/16" ■ 13 metric short arm sizes, 1.5mm-1cm

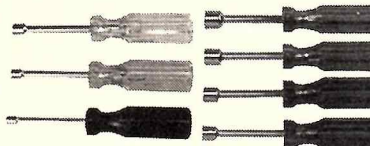
#22-840 \$6⁹⁵_(set)



Nut Driver Set

- Premium hardened steel sockets ■ Extra large colored handles ■ Seven S.A.E. sizes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16" and 1/2"

#22-855 \$7⁸⁰_(set)



17 Piece 1/4" Drive Socket Set

- Drop-forged, chrome alloy steel socket set in steel case ■ All pieces are hardened, tempered, nickel chrome plated ■ Nine sockets, 6 point: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" and 1/2" ■ Two sockets, 8 point: 1/4" and 5/16" ■ One 5" ratchet handle ■ One 5" flex handle ■ One 5" cross bar ■ One 2" and one 6" extension

#22-835 \$7⁹⁵_(set)





TOOLS

Burnishing Tools

- Excellent for removing oxidation from switches, relay contacts, etc.
- Ultra fine grade ■ .012" thick
- Available in two widths

#22-910 (.120") ... \$1.55 (1-9) ... \$1.20 (10-up)

#22-915 (.250") ... \$1.80 (1-9) ... \$1.35 (10-up)



Deluxe Alignment Tool Kit

- Handy leatherette roll type case that contains the most frequently used alignment tools ■ Case has fold-over flap to prevent tools from becoming lost ■ Kit contains: One of each, K-tran tool, neutralizing tool, alignment wrench, TV channel tuning tool, TV-FM tuning tool, core aligner, oscillator alignment tool, TV aligner, long reach aligner, universal aligner, duplex aligner, "shorty" duplex aligner, tuning wand, Zenith alignment tool and 5" hex wrench

#22-1020 ... \$22.95 (1-9 kits) ... \$21.95 (10 kits-up)



Anti-Static Alignment Tool Kit

- Kit contains: Nine anti-static alignment tools ■ The wide range of tip styles and sizes assures user will have a tool for adjusting or aligning any conventional component ■ Supplied with pocket storage case ■ Kit contains: One of each, adjustment screwdriver, combination aligner, steel tip duplex aligner, small hex screw driver, alignment tool, 7" 2-in-1 alignment tool and 7" screwdriver and tel-a-turn tool

#22-1015 ... \$15.95 (1-9 kits) ... \$14.95 (10 kits-up)

Nine Piece Alignment Tool Kit

- Kit contains: All popular types of tips, including hex, mini-hex, nub, mini-nub, square, screwdriver, etc. ■ All tools are made of space age material such as delrin, tenite and nylon

#22-060 ... \$5.75 (1-9 kits) ... \$5.20 (10 kits-up)

RCA Alignment Tool

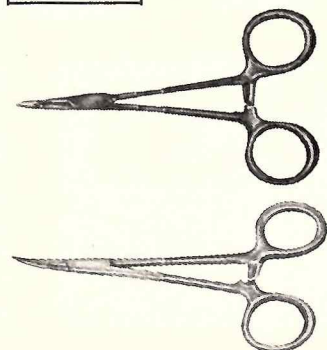
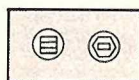
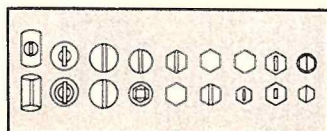
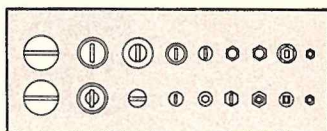
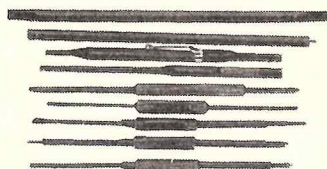
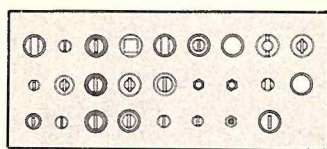
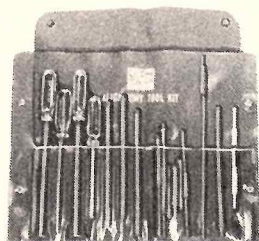
- Square shank tip used in RCA coils
- Made of nylon ■ 5" length

#22-955 ... 90¢ (1-9) ... 80¢ (10-up)

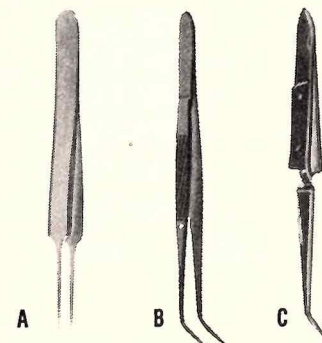
Hemostats

- Clamps, holds and helps position small parts ■ Made of surgical stainless steel

Order #	Length	Type	Price	
			(1-9)	(10-up)
22-975	3 1/2"	Straight	\$4.50	\$3.95
22-750	5 1/2"	Straight	5.75	5.25
22-755	5"	Curved Tip	5.75	5.25



Tweezers



- Made of surgical stainless steel
- Available in standard, 45° standard and 45° self-closing ■ 6 1/4" length

Fig.	Order #/Type	Price	
		(1-9)	(10-up)
A	22-450 Standard	\$2.45	\$2.00
B	22-460 45° Standard	4.25	3.75
C	22-745 45° Self-closing	4.95	4.50

Tweezer with Magnifying Lens

- Designed for people working with surface mount electronics ■ Made in USA ■ 4" length

#22-965 ... \$3.95 (ea.)

Parts Picker Upper

- For retrieving parts from hard-to-reach areas

#22-125 ... \$3.15 (1-9) ... \$2.65 (10-up)

24" Claw Pick-up Tool

- 24" flexible shaft ■ Finger grip opens and closes claw ■ Ideal for retrieving screws dropped inside equipment

#21-810 ... \$1.95 (1-9) ... \$1.60 (10-24) ... \$1.40 (25-49)

Telescopic Magnetic Pick-up Tool

- 4 1/4" closed ■ 22 1/2" extended
- Chrome plated ■ Magnetic head

#21-805 ... \$4.75 (1-9) ... \$4.08 (10-24) ... \$3.65 (25-49)

Tool Magnetizer

- Instantly magnetizes and demagnetizes small tools

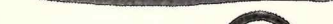
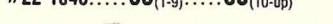
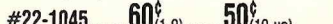
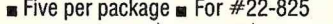
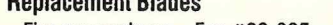
#21-845 ... \$1.95 (ea.)

Knives

Replacement Blades

- Five per package ■ For #22-390

#22-1035 ... \$1.45 (1-9 pkgs.) ... \$1.15 (10 pkgs.-up)



Utility

- General purpose knife ■ Lightweight, yet sturdy enough for production work
- Uses standard blades ■ 5/16" diameter

#22-390 ... \$1.35 (1-9) ... \$1.15 (10-up)

Precision Set

- Complete with the two most popular handles; plus ten assorted blades
- Display packaged

#22-385 ... \$5.95 (1-9 sets) ... \$5.50 (10 sets-up)

Retractable Utility Knife

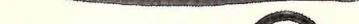
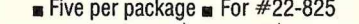
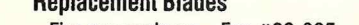
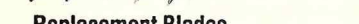
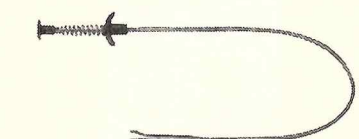
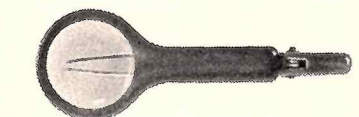
- Gray enamel finish ■ Five blades included

#22-825 ... \$3.50 (1-9) ... \$2.95 (10-up)

All Purpose Scissors

- Heavy duty scissors that will cut everything from paper to 18 gauge steel sheet metal ■ Made of stainless steel ■ Right-handed

#22-970 ... \$3.75 (ea.)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



TENMA™ Cotton Swabs

- Great for tape machine maintenance
- 6" wooden stick for getting into tight spaces

Single Sided ■ 100 per bag

#21-060 \$1.20 (1-9 bags) 95¢ (10-24 bags) 85¢ (25-49 bags)

Double Sided ■ 50 per bag

#21-1100 \$1.40 (1-9 bags) \$1.15 (10-24 bags) \$1.00 (25-49 bags)

VCR Foam Swabs

- High quality swabs for delicate cleaning jobs ■ Will not separate or leave fibers on the VCR head ■ Single ended swab ■ 6" wooden stick ■ 25 per package

#21-1060 \$2.80 (1-9 pkgs.) \$1.95 (10-24 pkgs.)

VCR Chamois Swabs

- Plastic swab with 45° angle end, covered with super soft chamois material ■ 4 1/2" overall length ■ Five per package

#21-710 \$2.00 (1-9 pkgs.) \$1.60 (10-24 pkgs.)

Fax Machine Cleaning Kit

- If you have a fax machine this is the ideal kit for keeping it clean and operating efficiently ■ Each kit contains: 8 oz. all purpose anti-static cleaner to clean and eliminate static, 1 oz. ink and stain remover, five cleaning swabs, five lint-free reusable wipes and one short bristled brush

#80-455 \$11.95 (kit)

Fax Machine Maintenance Kit

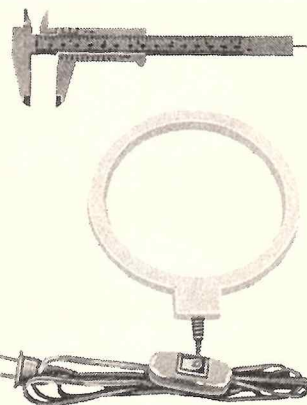
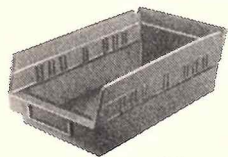
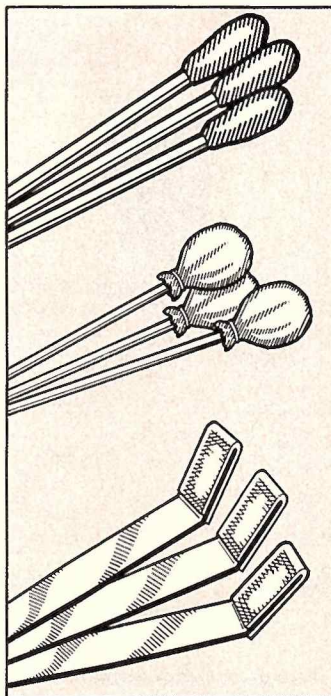
- Prolong the life of your facsimile machine with this maintenance kit ■ Each kit contains: Double-ended cleaning wand and printhead cleaning solution, canned air for hard to reach dust removal, case and cabinet cleaning solution, non-residual wipes to buff and polish

#80-460 \$29.95 (kit)

WAKRO-MILS Parts Bins

- The economical way to store and display parts and components. One piece molded construction. Durable polypropylene shelf bins are water-proof and unaffected by grease or oil. Cups and dividers below.

Order#	Size	Outside Dimensions (W) x (H) x (L)			Color	(1-9)	(10-49)	(50-up)
Bins 21-1595	std.	6 5/8"	4"	11 5/8"	Red	\$2.50	\$2.35	\$2.10
21-1600	std.	6 5/8"	4"	11 5/8"	Yellow	2.50	2.35	2.10
21-1605	std.	6 5/8"	4"	11 5/8"	Blue	2.50	2.35	2.10
21-1610	large	8 3/8"	4"	17 7/8"	Red	3.75	3.65	3.55
21-1615	large	8 3/8"	4"	17 7/8"	Yellow	3.75	3.65	3.55
21-1620	large	8 3/8"	4"	17 7/8"	Blue	3.75	3.65	3.55
Dividers (24 per pack)								
21-1625	Fits #21-1595, 1600, 1605				Black	7.95	7.75	7.50
21-1630	Fits #21-1610, 1615, 1620				Black	17.95	17.80	17.50
Bin cups								
21-1635	Small bin cups					.35	.32	.28
21-1640	Large bin cups					.65	.60	.55



Plastic Calipers

- Measures objects up to 6" ■ Depth guide
- Large numbers make it easy to read

#21-1220 \$2.25 (1-9) \$1.95 (10-up)

TENMA™ Degaussing Coil

- Demagnetizes CRTs to correct color impurities ■ 6 3/4" diameter ■ 6' cord with switch

#72-640 \$14.20 (ea.)

25 Drawer Parts Bin

- EZ-sort storage bins are sturdy, lightweight, stackable, easy to hang; with adjustable drawer dividers ■ Blue cabinet with clear drawers ■ Dimensions: 12 1/8" (W) x 6 3/16" (H) x 9 3/8" (D)

#80-030 \$15.55 (ea.)

3" x 5" Two Mil Recloseable Bags

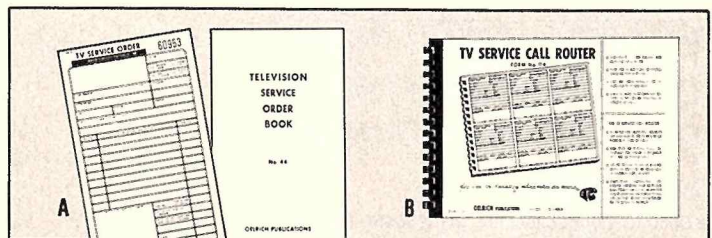
- Thousands of uses ■ Same bags used in our shipping department ■ 100 per package

#21-070 \$4.25 (1-9 pkgs.) \$3.40 (10-24 pkgs.) \$3.05 (25-49 pkgs.)

One Ounce Syringe

- Extra fine, 1/16" tip ■ Snap-on cap to prevent leakage ■ Excellent for application of almost any grease, damping fluid or heat sink compound

#28-600 99¢ (1-9) 89¢ (10-49) 69¢ (50-up)



A. Service Order Pad

- Used to record repair orders and charges ■ Each page contains blanks for: Customer name and address, home or shop call, repair ordered, repair performed, materials used, charges, pick-up or delivery, etc. ■ Pages are preprinted with a service order number ■ Pads contain a yellow copy for the customer and a white original ■ 100 pages (50 service orders) ■ Comes with two carbons ■ Form #44 ■ Printed in USA

#81-1150 \$1.50 (ea.)

B. Service Call Router

- For recording requests for service calls ■ Each page has six service route tickets with blanks for: Customer name and address, best call time, technician name, type of payment, service call, pick-up, delivery or set-up, parts warranty, service contract, appliance defect, etc. ■ Each book contains 600 perforated service tickets ■ Form #114 ■ Printed in USA

#81-1155 \$4.95 (ea.)



TECHNICAL AIDS

TENMA™ Electrician's Tape

■ Many uses ■ PVC insulating tape ■ 8 mil x 3/4" ■ 60' roll ■ #21-090 is UL approved

Red	Black	White
#21-095	#21-090	#21-985
Yellow	Blue	Green
#21-990	#21-995	#21-1000
95¢ (1-9)	75¢ (10-24)	67¢ (25-49)

Double Sided Foam Tape

■ Thousands of uses ■ Fasten accessories to car dash, etc. ■ 3/4" x 6 1/2" roll

#21-955	\$1.50 (1-9)	\$1.35 (10-up)
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Duct Tape

■ Extremely versatile tape ■ Strong adhesive ■ Much more resistant to moisture than most tapes ■ 2" x 60 yards

#21-955	\$6.60 (1-9)	\$5.75 (10-24)	\$5.20 (25-49)
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Sealing Tape

■ Plastic, super strong sealing tape ■ Transparent ■ 2" x 55 yards

#21-080	\$1.95 (1-9)	\$1.40 (10-24)	\$1.25 (25-49)
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Nylon Cable Ties

■ Self-locking for permanent attachment ■ Makes wire installations neater ■ Tan ■ 100 per package

Order #	Length	(1-9 pkgs.)	(10-24 pkgs.)
21-100	4"	\$2.75	\$1.95
21-110	5 1/2"	2.55	2.15
21-120	11"	6.40	5.55

Cable Clamps

■ Used to secure wire in automotive, electronic and appliance applications ■ 100 per bag

Order #	Size	(1-9 bags)	(10 bags-up)
21-1230	1/8"	\$4.80	\$3.59
21-1235	1/4"	5.29	3.95
21-1240	3/8"	5.82	4.36
21-1245	1/2"	6.11	4.57
21-1250	3/4"	6.73	5.03
21-1255	1"	7.07	5.29

Cable Tie Mounts

■ Used to mount cable ties to most surfaces ■ Rubber based adhesive mount ■ 1" for intermediate and standard ties ■ 3/4" for miniature ties ■ 100 per bag

3/4" Mount

#21-1200	\$10.20 (1-9 bags)	\$8.90 (10-24 bags)
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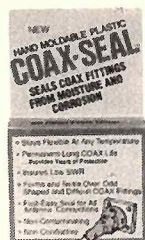
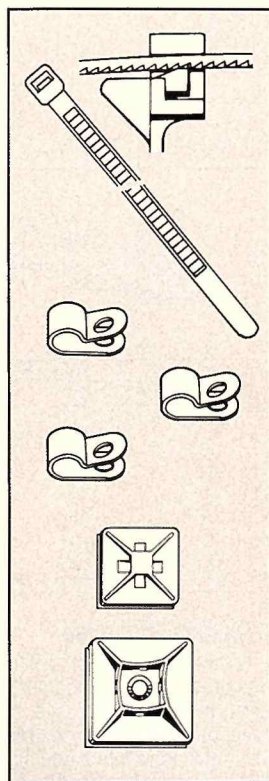
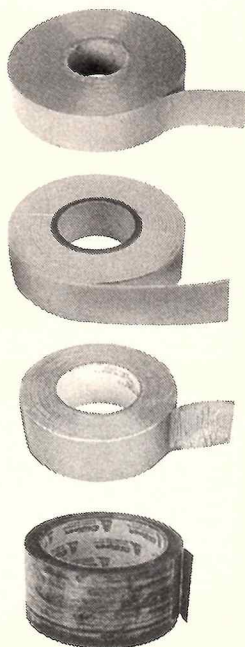
1" Mount

#21-1205	\$11.90 (1-9 bags)	\$11.05 (10-24 bags)
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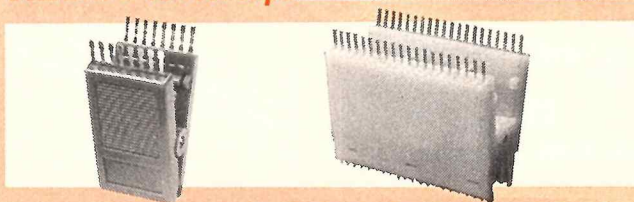
COAX-SEAL

■ A fast and easy way to waterproof coax fittings ■ Wraps around fittings and can be molded to any shape ■ Works with vinyl and poly vinyl outer covers ■ Stays flexible for years

#21-1140	\$3.00 (1-9)	\$2.60 (10-24)	\$2.35 (25-49)
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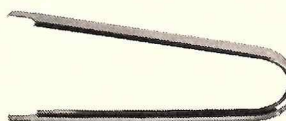


TENMA™ IC Test Clips



■ For use with standard 14-40 pin DIP ICs ■ The insulated pin hood surrounds the DIP pins to prevent accidental shorting ■ High quality molded hinge spring, ensures positive pin contact ■ Gold plated contacts to ensure low resistance connections

Order #	Pins	(1-9)	Price (10-up)
22-525	14-16	\$4.20	\$3.75
22-660	24	11.80	10.60
22-665	28	13.75	11.40
22-670	40	20.35	18.80



IC Extraction Tool

■ Used to remove all types of DIP ICs without bending pins ■ Made of chrome plated spring steel ■ A must for every technician

#22-530	\$1.85 (1-9)	\$1.65 (10-up)
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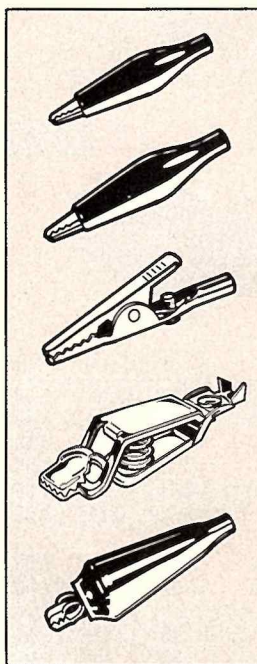


Molex Type Pin Extractor Tools

■ Allows easy removal of male and female pins from nylon Molex type connectors ■ Extractors are spring loaded and are designed to collapse the pin's locking flanges and pull them out of the housing ■ Available for .062" and .093" diameter pins

#21-1115 (.062")	#21-1120 (.093")	\$10.55 (25-49)
\$12.60 (1-9)	\$11.70 (10-24)	

Test Clips



TENMA™ Alligator Clips

■ Alligator clip with insulator ■ Solder type ■ Two sizes available ■ Ten per package

Mini 1" Overall Length

#21-380	\$1.65 (1-9 pkgs.)	\$1.30 (10-24 pkgs.)
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Regular 1 1/2" Overall Length

#21-370	\$2.25 (1-9 pkgs.)	\$1.60 (10-24 pkgs.)
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Heavy Duty 2" Overall Length

#21-360	\$1.60 (1-9 pkgs.)	\$1.30 (10-24 pkgs.)
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Battery Clip

■ Heavy duty clip ■ Rated to 20A ■ Screw type connection ■ 2 1/2" overall length

#21-700	42¢ (1-9)	33¢ (10-24)	30¢ (25-49)
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20 Amp

■ Screw type ■ Insulated ■ 3 1/4" overall length

Red #21-685	Black #21-690	
80¢ (1-9)	65¢ (10-24)	55¢ (25-49)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491

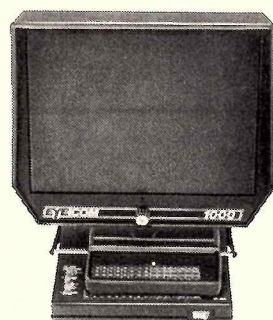


EYE.COM Microfiche Viewer

■ The Eye Com 1000 is designed for viewing both COM and source document microfiche at 75% of original size. The 14" height makes the Eye Com 1000 the smallest reader available, saving you valuable desk and counter space.

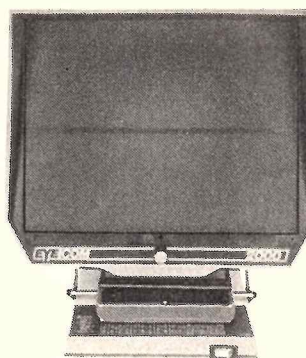
Features: ■ Screen size: 10³/₄" (W) x 8¹/₄" (H) ■ Locator line on screen for easy reading of fiche ■ Provides 32x magnification ■ Interchangeable lens capability ■ Unique floating lens system assures constant focus over entire film area ■ Fanless convection cooling for absolutely silent operation ■ Dimensions: 12¹/₂" (W) x 14¹/₂" (H) x 15¹/₄" (D) ■ **Note:** Replacement parts available through Eye Com

#21-1560 \$159⁹⁵ (1-4) \$149⁹⁵ (5-up)



Replacement Bulb

#21-1135 \$14⁹⁹ (1-9)



EYE.COM Microfiche Viewer

The Eye Com 2000 combines compact size and a high level of brightness with the advantage of a full size reader. Displays full microfiche on screen.

Features: ■ Screen size: 12⁵/₈" (W) x 9⁷/₈" (H) ■ Locator line on screen for easy reading of fiche ■ Provides 42x magnification ■ Interchangeable lens capability ■ Unique floating lens system assures constant focus over entire film area ■ Fanless convection cooling for absolutely silent operation ■ Dimensions: 14⁷/₈" (W) x 15⁷/₈" (H) x 17" (D) ■ **Note:** Replacement parts are available through Eye Com

#21-1110 \$189⁹⁵ (1-4) \$169⁹⁵ (5-up)

Fluorescent Magnifier Lamp

■ Fluorescent light with precision 3x magnifying lens ■ Spring balanced arm reaches 45" ■ 22W fluorescent tube provides perfectly balanced lighting ■ 5" magnifying lens ■ Beige finish ■ Metal clamp

#21-935 \$69⁹⁵ (1-4) \$67¹⁵ (5-9) \$60⁴⁰ (10-24)

Magnifier Lamp

■ Spring balanced arm reaches 30" ■ Uses up to a 60W bulb (not included) ■ Porcelain socket ■ 4" diameter 3x magnifier lens ■ Beige finish ■ Metal clamp

#22-680 \$25⁸⁰ (ea.)



Clamp-on Worklight

■ Puts light where you need it ■ 8¹/₂" diameter polished aluminum reflector ■ Strong spring clamp with adjustable ball-swivel ■ Rubberized clamp won't mar surfaces ■ Uses standard incandescent bulb (not included)

#21-800 \$10⁰⁵ (1-9) \$8⁷⁵ (10-24) \$7⁹⁰ (25-49)

Mini Flashlight



■ Great for service work ■ Focusable light beam ■ Spare bulb included in base ■ Durable metal construction ■ Waterproof ■ Nylon cord ■ Uses two "AA" cells (not included) ■ Dimensions: 1" (Dia.) x 5³/₄" (L)

#29-755 \$6¹⁵ (ea.)

EVEREADY Flashlight

■ High impact plastic ■ Uses two "D" cells (not included) ■ Great for test bench

#29-245 \$1⁸⁰ (1-9) \$1⁵⁰ (10-24) \$1³⁵ (25-49)

Fluorescent Worklight

■ Ideal for car audio installers ■ Puts light where you need it ■ Fluorescent bulb stays cool ■ Operates on 12VDC ■ Cigarette lighter plug for simple hook-up ■ 15' cord for mobility

#21-795 \$12²⁵ (1-9) \$11³⁵ (10-24) \$10²⁵ (25-49)



Replacement Bulb

#25-205
35¢ (1-9) 30¢ (10-99) 25¢ (100-up)



GC Replacement Dial Cord

■ No-stretch cord ■ Made of nylon over a fiberglass core ■ Standard thin (.028" diameter) cord ■ Same as those used on most tuners ■ 25' roll

#28-028 \$2⁵⁰ (1-9) \$2³⁰ (10-up)

Electrical Circuit Tester

■ Continuity tester ■ Check bulbs, fuses, PCBs, etc. ■ Perfect for home and auto

#21-865 \$2⁶⁵ (1-9) \$2²⁵ (10-24) \$2⁰¹ (25-49)

6 and 12 Volt Auto Electrical Tester

■ Screwdriver type probe with lamp in handle ■ Ground lead with banana plug attached ■ Simply attach alligator clip to ground and use probe to detect voltages ■ Perfect for auto-sound installers

#21-860 \$2¹⁵ (1-9) \$1⁸⁵ (10-24) \$1⁶⁵ (25-49)

Automotive Fuse Puller

■ Used to easily remove ATC (knife) and AGC (standard) type fuses from auto fuse box ■ Made of hard durable plastic ■ A must for every tool box

#22-535 41¢ (1-9) 36¢ (10-up)

GC Insulating Cambric

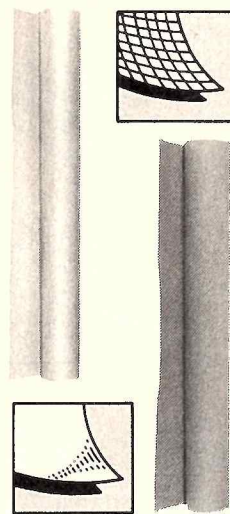
■ Dry, varnished cambric used to insulate high voltage components and wires ■ Used for field coils, transformers, chokes, resistors, and motors ■ 5000V insulating strength ■ 0.01 thick ■ 9" x 23" roll

#21-1130 \$3⁹⁵ (1-9) \$3⁴⁰ (10-up)

GC Fish Paper

■ A paper-like insulator ■ Perfect for insulating PC boards from chassis ■ 300V per mil insulating strength ■ 0.001" thick ■ 9" x 27" roll

#21-1125 \$2⁹⁵ (1-9) \$2⁵⁵ (10-24)





Dual Helping Hand

■ Great for holding PC boards ■ Adjusts to any position or angle ■ Holds work firmly in place

#21-425 \$5²⁵₍₁₋₉₎ \$4⁵⁰₍₁₀₋₂₄₎ \$4⁰⁰₍₂₅₋₄₉₎

Magnifier for Helping Hands

■ Easily attaches to helping hands (#21-425) ■ Great when using small components or delicate soldering

#21-905 \$1⁵⁰_(ea.)

Magnifying Glass Set

■ Two piece magnifying glass set with unbreakable plastic lenses ■ Great for reading fine print on schematics

#21-850 \$1⁷⁵_(set)

Illuminated Magnifier

■ High intensity bulb ideal for troubleshooting PC boards and wiring diagrams ■ 3x magnification ■ Requires two "AAA" batteries

#21-1300 \$6⁹⁵_(ea.)

Credit Card Magnifier

■ Designed to help field repairmen read schematics, part numbers, etc. ■ Fits in wallet or shirt pocket ■ Has a metric rule along the top ■ Includes a carrying sleeve ■ Dimensions: 3 3/8" x 2 1/8"

#21-1070 \$1⁵⁰₍₁₋₉₎ \$1²⁰₍₁₀₋₂₄₎ \$1⁰⁵₍₂₅₋₄₉₎

Inspection Mirror

■ Used to identify part numbers in tight spaces ■ Made of non-conductive plastic ■ 4" length

#21-1055 \$1¹⁰₍₁₋₉₎ 90¢₍₁₀₋₂₄₎ 80¢₍₂₅₋₄₉₎

Heat Shrink Tubing Kit

■ High quality heat shrink tubing kit meets UL and Mil-spec standards ■ Shrinks to 50% of original diameter using heat application of 250°F ■ 23 pieces of 6" assorted sizes (1/16", 1/8", 3/16", 1/4" and 3/8")

#21-1565 \$4⁹⁵_(1-9 kits) \$4⁵⁰_(10 kits-up)

Heat Shrink Tubing

■ Excellent general purpose heat shrinkable tubing ■ Highly resistant to fungi and chemicals ■ Shrinks to less than half of original diameter ■ Black ■ 6" length

#28-650 (1/8" contains: (28) 6" lengths)

#28-652 (1/4" contains: (20) 6" lengths)

#28-655 (1/2" contains: (14) 6" lengths)

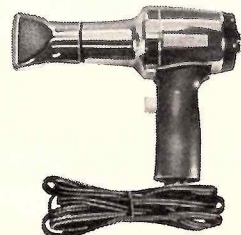
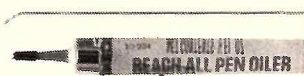
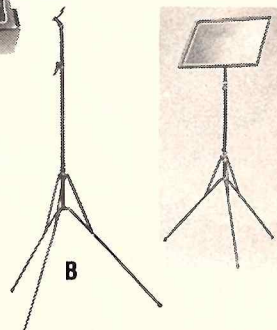
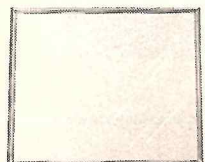
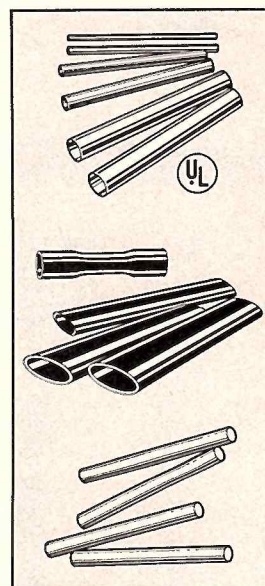
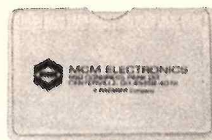
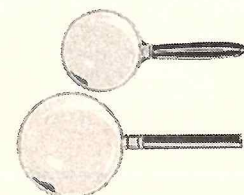
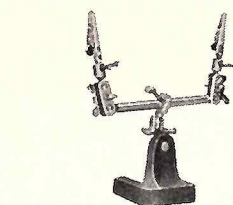
#28-657 (3/4" contains: (12) 6" lengths)

\$6³⁰_(1-9 pkgs.) \$5⁹⁰_(10 pkgs.-up)

Glue Sticks

■ Used for general purpose bonding ■ 10" pieces ■ 12 per package

Order #	Color	Melting Point	Price (1-9 pkgs.)	Price (10 pkgs.-up)
22-720	Yellow	91°C	\$5.90	\$5.35
22-725	Yellow	87°C	5.95	5.25
22-990	Clear	85°C	5.45	4.90



Hot Glue Gun

■ Hundreds of uses throughout the shop ■ Use it to bond yokes to CRTs, transformers to PC boards, seal custom speaker enclosures, seal cartons for shipping and more ■ Convenient trigger operation for even distribution of glue ■ Built-in stand ■ Ergonomically designed handle is comfortable and stays cool; even during prolonged use ■ Comes complete with six glue sticks ■ Operates on voltages 110VAC

#22-715 \$20⁰⁵₍₁₋₉₎ \$17⁸⁰_(10-up)

A. GC TV Service Mirror

■ An invaluable aid for behind-the-set adjustments ■ Unbreakable plexiglass mirror that is perfect for field service ■ Clear distortion free image ■ Large 10" x 12" area ■ Support bar included

#21-1180 \$19⁹⁵₍₁₋₉₎ \$18⁷⁵₍₁₀₋₂₄₎

B. Stand for TV Service Mirror

■ Stand is fully adjustable ■ Swivels in all directions ■ Folds for easy moving and storage ■ Designed for use with our #21-1180

#21-1210 \$19⁹⁵₍₁₋₉₎ \$18⁷⁵₍₁₀₋₂₄₎

Safety Goggles

■ Clear optical plastic lens ■ Ventilated for comfort ■ Protects against dust, sparks, and more ■ Can be worn over eyeglasses

#21-855 \$2⁵⁵₍₁₋₉₎ \$2²⁵₍₁₀₋₂₄₎ \$2⁰⁰₍₂₅₋₄₉₎

GC Reach-All Pen Oiler

■ Highly refined, non-gumming instrument oil in a convenient pen-like dispenser ■ Excellent for in-field work ■ Comes with a 5 1/2" long reach extender and a pocket clip ■ 1/2 oz.

#20-970 \$4⁴⁰₍₁₋₅₎ \$3⁸⁰₍₆₋₁₁₎ \$3⁴⁵₍₁₂₋₂₃₎

Professional Quality Heat Gun

■ UL approved, heavy duty heat gun ■ Two position heat control allows selection between 600°F-1000°F ■ Includes a heat dispersion nozzle ■ Operates on 110VAC, 1200W

#21-1095 ... \$38⁹⁵₍₁₋₄₎ \$32⁹⁵₍₅₋₉₎ \$29⁶⁵₍₁₀₋₂₄₎

Heat Gun

■ Rugged lightweight heat gun for shrinking heat shrink tubing ■ Adjustable air intake allows variation of air temperature ■ Hot and cool settings ■ Includes a wide heat nozzle ■ Operates on 110VAC ■ Air temperature at nozzle exceeds 400°F

#21-1090 ... \$18⁹⁵₍₁₋₄₎ \$17⁷⁵₍₅₋₉₎ \$15⁹⁰₍₁₀₋₂₄₎



PANAVISE

NEW

Panavise is known nationwide as a manufacturer of quality work-holding devices. They utilize a unique "split-ball" design that enables a vise head to be positioned through three planes with the turn of a knob. By mixing and matching heads, bases and accessories, there's nearly an endless choice of configurations to choose from.

300 Standard Base

■ The 300 standard base holds all regular panavise heads and circuit board holders
■ The patented control knob and exclusive split-ball permit movement to any desired position ■ 3 3/4" high

#106-003 \$19⁹⁵ (ea.)

305 Low Profile Base

■ The 305 low profile base is only 2 1/2" high
■ Designed for working close to the bench surface

#106-008 \$19⁹⁵ (ea.)

380 Vacuum Base

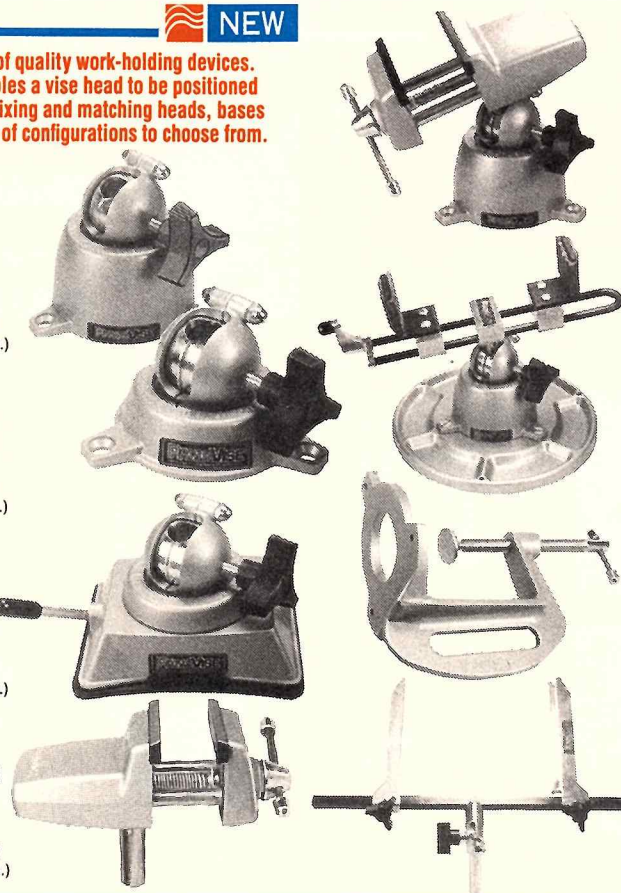
■ The 380 vacuum base for portable applications ■ Moving the lever arm attaches the vacuum base instantly with a firm grip to any clean, non-textured surface

#106-004 \$34⁹⁵ (ea.)

303 Standard Head

■ The 303 standard head jaws are 2 1/2" wide and open to 2 1/4" ■ This general purpose head has exceptional quality and strength ■ 2 1/8" length stem

#106-002 \$24⁹⁵ (ea.)



301 Standard Panavise

■ The 301 standard panavise is an all purpose work holding unit ■ It tilts, turns and rotates
■ This unit consists of the 300 standard base and the 303 standard head with nylon jaws
■ One control knob locks the work firmly in any position

#106-001 \$39⁹⁵ (ea.)

350 Multi-Purpose Work Center

■ The 350 work center is the perfect companion for all your assembly needs ■ The 376 self-centering extra wide opening head, the 300 standard base, and the 312 tray base mount are included

#106-007 \$69⁹⁵ (ea.)

311 Bench Clamp Base Mount

■ The 311 bench clamp base mount for the 300 standard or 305 low profile base, clamps to the edge of any workbench or table up to 3 1/2" thick ■ Three screws are included for mounting a base to the bench clamp

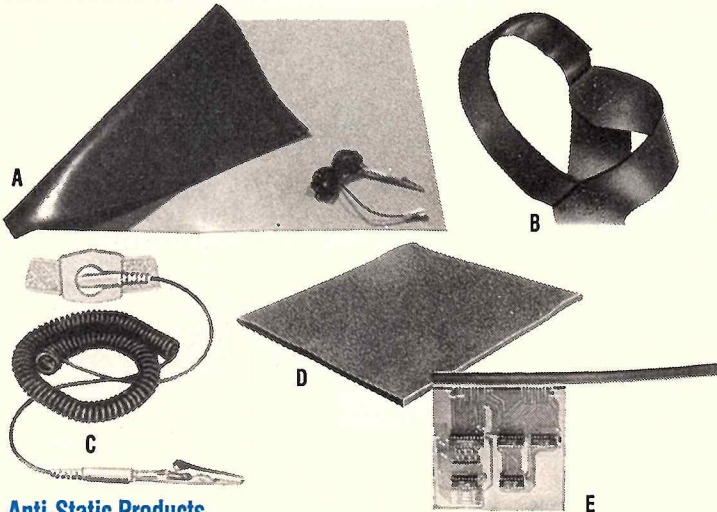
#106-005 \$38⁹⁵ (ea.)

315 Circuit Board Holder

■ The 315 circuit board holder is designed to accommodate PC boards up to 28" wide, and up to 1/8" thick ■ Holds boards exactly where you want them ■ The spring-tension adjustable right arm offers quick removal and insertion of boards

#106-006 \$27⁹⁵ (ea.)

Anti-Static Products



Anti-Static Products

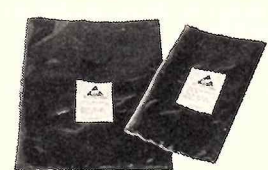
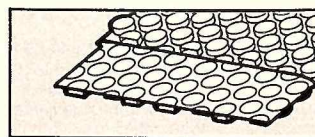
■ Provide static protection to your work bench with these mats and accessories

Fig.	Order #	Description	Dimensions			Color	Price (1-4)
			(W)	(L)	(D)		
A	21-890	Floor Mat	40"	60"	—	Black	\$89.95
A	21-655	Work Mat	18"	26"	—	Gray	37.60
A	21-885	Keyboard Mat	8"	18"	—	Gray	11.75
							Price (1-9)
B	21-835	Heel Strap	—	—	—	Black	11.75
C	21-660	Wrist Strap W/5' coiled cord	—	—	—	—	9.75
D	21-910	Conductive Foam	12 1/2"	12 1/2"	9/16"	—	8.80
E	21-840	PCB Edge Protector (2) 9" pieces	—	—	—	—	7.35

Anti-Static Field Service Kit

■ 24" square electrically conductive work mat with two built-in storage pockets
■ Provides electrostatic protection for sensitive boards during transport or installation ■ Wrist strap and ground cord are included ■ Kit folds to 8 1/2" (W) x 12" (L) x 1/2" (D)

#21-740 \$29⁹⁵ (1-4 kits) \$28¹⁵ (5-9 kits) \$25³⁰ (10-24 kits)



Anti-Static Bags

■ Provides static protection for PC boards during handling and shipping
■ Available in two styles

Order #	Type	Dimensions	Quantity Per		Price		
			Package	(1-9 pkgs.)	(10-24 pkgs.)	(25-49 pkgs.)	
21-815	Bubble	3" x 5"	100	\$3.05	\$2.60	\$2.30	
21-820	Bubble	5" x 10"	100	7.25	6.30	5.70	
21-825	Bubble	8" x 12"	25	4.85	4.15	3.75	
21-830	Bubble	11" x 15"	25	7.25	6.30	5.70	
21-870	Regular	5" x 10"	25	4.15	3.60	3.20	
21-875	Regular	8" x 12"	25	7.35	6.40	5.75	
21-880	Regular	11" x 15"	25	11.20	10.40	9.40	

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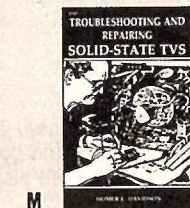
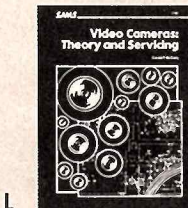
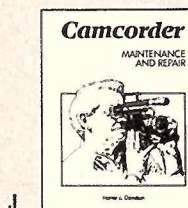
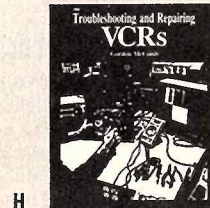
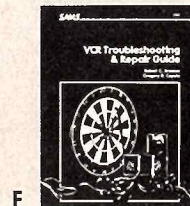
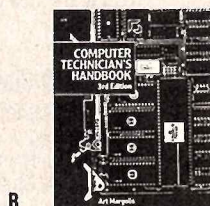
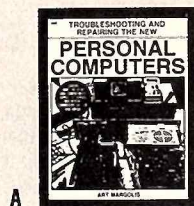
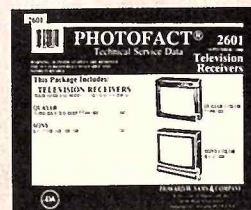
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A. Troubleshooting and Repairing the New PCs

A thorough and well illustrated troubleshooting and repair guide. Covers IBM PC/XT/AT and compatibles, Apple II series computers, Commodore 64/128, and Amiga. Art Margolis, 401 pages, 7 1/4 x 9 1/4, soft cover © 1987.

#81-1180 \$19⁹⁵ (ea.)

B. Computer Technician's Handbook (3rd Edition)

This exceptionally thorough guide to computer maintenance, troubleshooting, and repair is the ideal way to get started... plus, a great way to save money on your own computer repairs. Art Margolis, 504 pages, 5 1/4 x 8 1/4, soft cover © 1985.

#81-0450 \$24⁹⁵ (ea.)

C. Commodore 64® Troubleshooting and Repair Guide

Repair your Commodore 64 yourself, simply and inexpensively. Troubleshooting flowcharts let you diagnose and remedy the probable cause of failure. Some knowledge of electronics is required. Robert C. Brenner, 256 pages, 8 1/2 x 11, soft cover © 1985.

#81-935 \$19⁹⁵ (ea.)

D. Practical Microwave Oven Repair

Bursting with photographs, case histories, and schematics, this practical guide provides the guidance needed on tools and test equipment, motor problems, and more. Homer L. Davidson, 305 pages, 5 1/4 x 8 1/4, soft cover © 1984.

#81-0470 \$15⁹⁵ (ea.)

FOR COMPUTER UPGRADE MANUAL SEE PAGE 72

E. VCR Connections Guide: TV Accessory Hookup Made Easy

Contains simple descriptions and drawings to help you connect your TV to everything from computer games to satellite receivers. Also contains helpful maintenance and troubleshooting tips. Howard W. Sams Engineering Staff, 152 pages, 7 1/2 x 9 3/4, soft cover © 1988.

#81-1190 \$8⁹⁵ (ea.)

F. VCR Troubleshooting and Repair Guide

With approximately 25 million VCRs on the market, this long awaited book will help repair these popular machines when they break down. This troubleshooting guide is for the electronics layperson or technician who needs a preventive maintenance and troubleshooting reference for VCRs. Robert C. Brenner, 256 pages, 8 1/2 x 11, soft cover © 1988.

#81-0830 \$19⁹⁵ (ea.)

G. Maintaining and Repairing VCRs

All the information in this book has been gathered directly from the service departments of such VCR manufacturers as Zenith, RCA, GE, JVC and others. With actual case studies of various models, and more than 400 illustrations. You'll discover the professional methods of proper cleaning, lubrication and maintenance that can keep VCRs operating smoothly. Robert L. Goodman, 356 pages, 7 1/4 x 9, soft cover.

#81-0485 \$17⁹⁵ (ea.)

H. Troubleshooting and Repairing VCRs

This book offers schematics and step-by-step details for the maintenance and repair of VCRs. Includes everything from cleaning heads to troubleshooting logic circuitry problems. For all types of VCRs; as well as camcorders. Gordon McComb, 337 pages, 7 1/4 x 9, soft cover © 1988.

#81-1170 \$17⁹⁵ (ea.)

J. Camcorder Maintenance and Repair

This is an excellent sourcebook covering camcorders, 8mm, and color cameras. It gives a breakdown of formats (VHS/VHS-C, 8mm). It is well-illustrated on techniques such as head cleaning, component removal, mechanical adjustments, and motor problems commonly found with camcorders. Homer L. Davidson, 292 pages, 7 1/2 x 9, soft cover © 1989.

#81-1200 \$16⁹⁵ (ea.)

K. Troubleshooting and Repairing Camcorders

This book has schematics and step-by-step instructions to repair and troubleshoot camcorders. Gain a new and profitable skill fixing home video cameras. Discover proven repair techniques for every tape format and most major brands of camcorders. Homer L. Davidson, 533 pages, 7 1/4 x 9 1/4, soft cover © 1990.

#81-1210 \$22⁹⁵ (ea.)

L. Video Cameras: Theory and Servicing

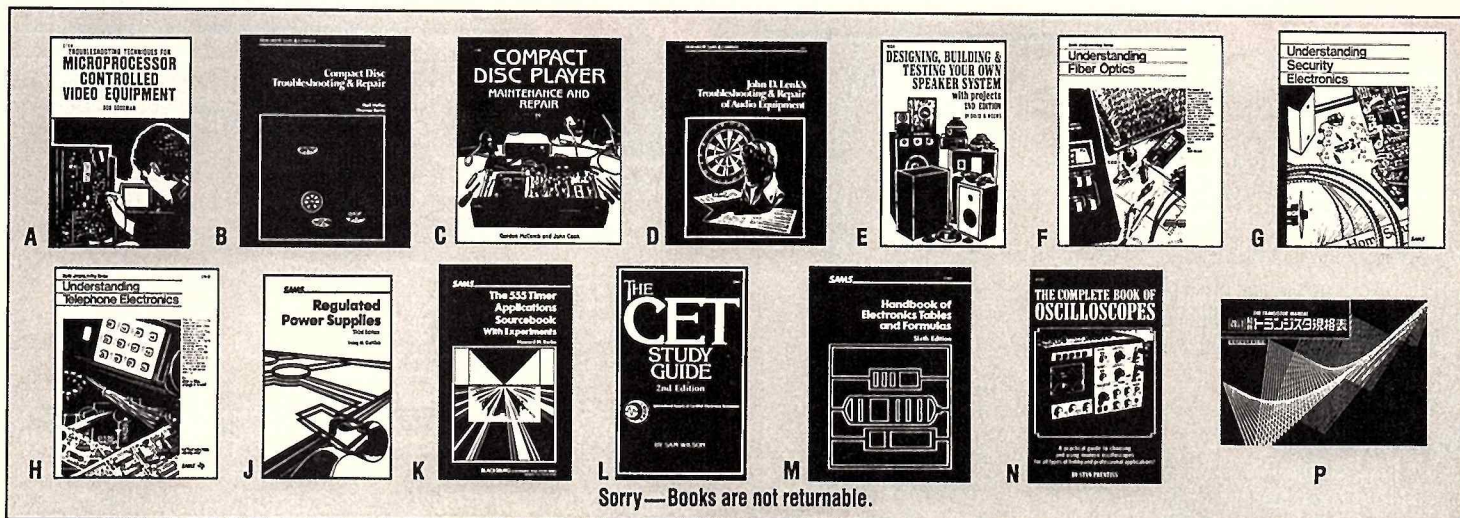
This entry-level technical primer on video camera servicing provides practical theory in clear and well-illustrated sections. Gerald P. McGinty, 264 pages, 8 1/2 x 11, soft cover © 1984.

#81-760 \$18⁹⁵ (ea.)

M. Troubleshooting and Repairing Solid-State TVs

All the information electronic repair technicians need to zero in on solid-state television problems in black and white and color; and repair them quickly. Homer L. Davidson, 464 pages, 5 x 8, soft cover © 1986.

#81-0670 \$17⁹⁵ (ea.)



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A. Troubleshooting Techniques for Microprocessor Controlled Video Equipment

Breaks down the intricacies of microprocessors and digital electronics and demonstrates how to troubleshoot them when a problem occurs. Bob Goodman, 352 pages, 5 x 8, soft cover © 1987.

#81-0660 \$16⁹⁵_(ea.)

B. Compact Disc Troubleshooting and Repair

This comprehensive manual can teach you what to do when a CD player malfunctions. Provides a complete CD hardware and digital theory overview. Clearly explains the audio signal, including critical areas such as signal-to-noise ratio, channel separation, and frequency response. Explains troubleshooting, including system control, motor drive, laser pickup, focus and tracking servo, and audio system. Neil Heller/Thomas Bentz, 160 pages, 8 1/2 x 11, soft cover © 1988.

#81-1140 \$19⁹⁵_(ea.)

C. Compact Disc Player Maintenance and Repair

Packed with quick and reliable answers to the problems of maintaining and repairing disc players, this illustrated do-it-yourself guide takes the apprehension out of first-time repairs. Gordon McComb and John Cook, 256 pages, 7 x 10, soft cover © 1987.

#81-0665 \$13⁹⁵_(ea.)

D. Troubleshooting and Repair of Audio Equipment

This manual provides the most up-to-date data available and a simplified approach to practical troubleshooting and repair of major audio device. It will enable both the beginning and the intermediate level technician to apply tips and tricks to any specific equipment. John D. Lenk, 208 pages, 8 1/2 x 11, soft cover © 1987.

#81-0825 \$21⁹⁵_(ea.)

E. Designing, Building and Testing Your Own Speaker System... with Projects (3rd Edition)

The ultimate sourcebook for do-it-yourself audio enthusiasts who want a dream speaker system at a fraction of the retail cost! Includes step-by-step instructions and dozens of illustrations. David Weems, 214 pages, 5 1/4 x 8 1/4, soft cover © 1990.

#81-0465 \$16⁹⁵_(ea.)

F. Understanding Fiber Optics

Anyone interested in fiber optic technology; technicians or engineers will find this an easy-to-comprehend tutorial. The latest communications applications are highlighted, including telephone, computers, LAN, video, and automotive. Jeff Hecht, 456 pages, 7 x 9, soft cover © 1987.

#81-0835 \$17⁹⁵_(ea.)

G. Understanding Security Electronics

Covers electronic protection systems used against robbery, burglary, and eavesdropping. Also treats personnel identification and verification, and detection of concealed weapons. John E. Cunningham, 271 pages, 5 1/2 x 8 1/2, soft cover © 1987.

#81-700 \$18⁹⁵_(ea.)

H. Understanding Telephone Electronics

Covers all aspects of telephone electronics, from the design of the telephone to the vast matrix that links telephones together. Also includes instruction on modems and cordless telephones. It is designed like a textbook and includes a quiz (and answers) at the end of each chapter. John L. Fike and George E. Friend, 284 pages, 7 x 9, soft cover © 1984.

#81-1185 \$17⁹⁵_(ea.)

J. Regulated Power Supplies (3rd Edition)

Improved performance and greater reliability are by-products of adoption of regulated power supplies. Learn about static characteristics, dynamic characteristics, regulation techniques, and linear and switching-type regulators using integrated circuits. Irving M. Gottlieb, 424 pages, 5 1/2 x 8 1/2, soft cover © 1971.

#81-780 \$19⁹⁵_(ea.)

K. 555 Timer Applications Sourcebook, with Experiments

Describes construction and use of various versions of the 555 timer and gives you many practical applications. Howard M. Berlin, 160 pages, 5 1/2 x 8 1/2, soft cover © 1987.

#81-250 \$9⁹⁵_(ea.)

L. The CET Study Guide (2nd Edition)

This is the only sourcebook available that offers a complete review of every subject on the CET exam. Contains a comprehensive review of every topic covered along with two 75 question practice exams. For the Associate-Level and Journeyman-Level exams. Sam Wilson, 313 pages, 5 x 8 1/4, soft cover © 1987.

#81-1160 \$15⁹⁵_(ea.)

M. Handbook of Electronic Tables and Formulas (6th Edition)

This essential reference piece quickly puts at your fingertips the hard-to-remember electronic laws, formulas, constants and standards as established by industry and government. Howard W. Sams Engineering Staff, 350 pages, 5 1/2 x 8 1/2, soft cover © 1959.

#81-775 \$19⁹⁵_(ea.)

N. The Complete Book of Oscilloscopes

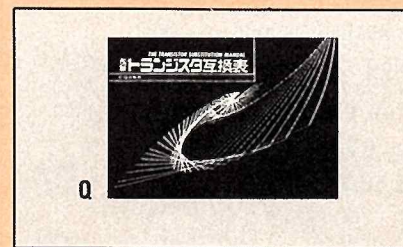
An in-depth reference and a practical applications guide which explains how to best use ordinary scopes, spectrum analyzers, sampling and storage, time domain reflectometry, etc. Stan Prentiss, 230 pages, 5 x 8 1/4, soft cover © 1983.

#81-1165 \$14⁹⁵_(ea.)

P. Transistor Spec Manual

A must for any technician. Gives the specification breakdown on 2S, DTA, DTC, and many other specialized Japanese transistors. Manual has been updated so that RF transistors are sorted by noise factor, and AF outputs are sorted by power output. 358 pages, 8 1/2 x 5 3/4, soft cover.

#81-450 \$10⁹⁵_(ea.)



NEW

Q. Transistor Substitution Manual

The latest guide to substitutes for just about any Japanese transistor ever made under the 2S system. Lists all the major Japanese manufacturers your part will cross to; for a quick and easy substitution. A must for any technician. 275 pages, 8 1/2 x 5 3/4, soft cover.

#81-1205 \$13⁹⁵_(ea.)



PROJECT ACCESSORIES

Solderless Breadboards

- The perfect breadboards for circuit designing, testing electronic devices and educational uses ■ Great for high frequency, high speed and low noise circuits ■ Red and black binding posts ■ 1260 terminal strip tie points ■ 100 distribution strip tie points ■ Dimensions: 4" (W) x 8 1/2" (L) x 3/4" (D)

#72-340 \$20⁵⁰₍₁₋₉₎ \$18⁵⁰_(10-up)

- Red, yellow, green, and black binding posts ■ 1890 terminal strip tie points and 500 distribution strip tie points ■ Dimensions: 6 1/8" (W) x 9" (L) x 3/4" (D)

#72-345 \$40⁹⁰₍₁₋₉₎ \$37⁹⁵_(10-up)

Breadboard Module

- Snap together design lets you make any size breadboard by combining segments ■ 630 plug-in tie points and four distribution strips, each with 50 plug-in tie points ■ Dimensions: 2 1/4" (W) x 6 1/2" (L) x 1/2" (D)

#72-337 \$10⁵⁰₍₁₋₉₎ \$8⁹⁵_(10-up)

Cord Strain Relief Bushings

- Accommodates standard 18 gauge zip cord ■ Half-inch hole required for installation ■ 100 per package ■ See page 35 for strain relief pliers

#28-680 \$4⁹⁵_(1-9 pkgs.) \$3⁹⁵_(10 pkgs.-up)

- Self-sticking 3/4" square cushion feet are great for finishing off your latest project ■ Four per package

#28-940 85[¢]_(pkg.)

Harness Wrap

- Reuseable harness wrap protects wire bundles ■ Leads can be brought out at any point to make custom wiring harness ■ Ideal for car stereo installation ■ 25' length

#28-1155 (1/16"-1/2") \$2⁹⁵_(ea.)

#28-1160 (1/8"-1") \$3⁵⁰_(ea.)

#28-0290 (5/16"-2") \$5⁷⁵_(ea.)

Continuous Grommet

- Protects wires, cables, and cords against damage from sharp panel edges ■ Simply cut to fit any size or shape opening ■ 25' length

Up to .036"/20 Gauge

#28-1165 \$2²⁹_(ea.)

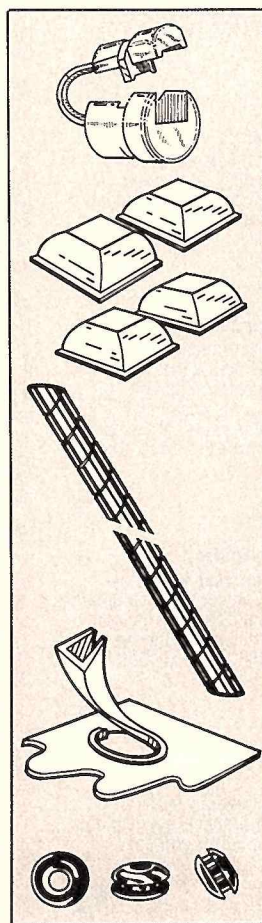
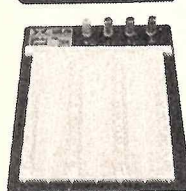
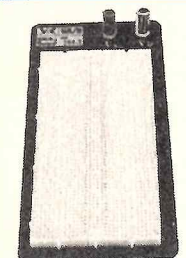
.037"-.105"/19-12 Gauge

#28-0285 \$2⁹⁵_(ea.)

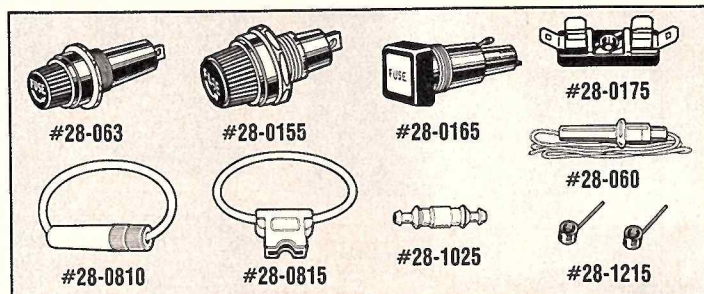
Rubber Grommets

- 100 per bag

Order #	I.D.	Size	O.D.	Price (1-9 bags)	Price (10 bags-up)
28-1075	1/8"		5/16"	\$4.95	\$4.50
28-1080	3/16"		3/8"	5.25	4.80
28-1085	5/16"		9/16"	5.50	5.05
28-1090	1/4"		1/2"	5.95	5.50
28-1095	3/8"		5/8"	6.25	5.80



Fuse Holders



Order #	Fuse Size	Rated Voltage	Rated Current	Note	Price (1-9)	Price (10-49)	Price (50-up)
28-063	1 1/4" x 1/4"	250VAC	10A	Screw type	\$6.7	\$5.6	\$5.1
28-0155	20mm x 5mm	250VAC	10A	Screw type	1.30	1.10	.99
28-0165	1 1/4" x 1/4"	250VAC	10A	Push type	.84	.69	.59
28-060	1 1/4" x 1/4"	32VDC	3A	3A fuse included	.49	.39	.25
28-0175	1 1/4" x 1/4"	250VAC	10A	Fuse block	1.05	.85	.65
28-0810	1 1/4" x 1/4"	32VDC	20A	Screw type	.99	.79	.69
28-0815	—	32VDC	30A	ATO in-line	1.49	1.29	1.19
28-1025	Universal	32VDC	30A	Crimp type	.85	.77	.65
28-1215	Fits 1/4" fuse	12 per package		Pigtail fuse clip	2.59	—	—

Printed Circuit Board Kit

- Simply apply etch resists to unsensitized boards and etch ■ Kit contains: Three 6" x 3" single-sided FR-4 glass epoxy laminate boards, two resist pens, pressure sensitive terminal circles and strips, graph layout paper, etching tray, board cleaning pad, and 8 ozs. of etching solution (ferric chloride FeCl₃)

#21-1020 \$14⁷⁰_(1-9 kits) \$13⁶⁰_(10-24 kits)

Conductive Pen by circuit works™

- Use where conductive electronic traces are needed ■ Perfect for designing prototype circuits ■ Solderable at low temperatures ■ Makes instant silver conductive traces on most surfaces ■ Dries in minutes

#21-1555 \$11⁴⁹₍₁₋₄₎ \$10⁹⁵_(5-up)

circuit works™ Overcoat Pen

- The overcoat pen writes in a conformal coating to help protect and insulate components, traces and repairs on circuit boards ■ When used to repair solder mask, the overcoat pen improves the reliability and safety of circuit board modifications ■ Can be applied over traces made by the conductive pen to protect and insulate trace ■ Dries in minutes at room temperature

#21-1580 \$10⁴⁹₍₁₋₄₎ \$9⁹⁵_(5-up)

Project Boxes

- Gray plastic boxes with slots inside to hold PC boards ■ Lid with hardware included ■ Measurements are inside dimensions

Order #	Dimensions	Price
28-960	2" (W) x 4" (L) x 5/8" (D)	\$1.75
28-965	2 5/16" (W) x 4 7/8" (L) x 1 5/8" (D)	2.40
28-970	3 5/16" (W) x 5 11/16" (L) x 2" (D)	3.30
28-975	4 5/16" (W) x 7 1/16" (L) x 2 3/8" (D)	3.95



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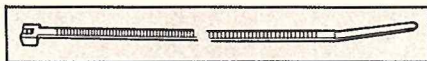


Tyton Fasteners

Tyton manufacturing has one of the most complete lines of cable ties in the electronics industry. These products provide cost-efficient solutions while offering high quality, to compete in today's marketplace. Cable ties manufactured include standard, mounting, double head, releasable, identification and heavy duty lashing ties.

Standard Cable Ties

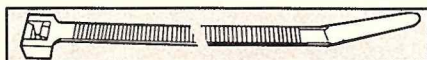
■ 100 per bag



Order #	Length	Color	Tensile Strength	Bundle Size	Price	
					(1-3)	(4-up)
21-1320	4"	Natural	18 lbs.	3/4"	\$2.50	\$1.90
21-1325	4"	Black	30 lbs.	3/4"	2.50	1.90
21-1330	6"	Natural	30 lbs.	1 1/4"	3.65	2.90
21-1335	6"	Black	30 lbs.	1 1/4"	3.65	2.90
21-1340	8"	Natural	30 lbs.	2"	4.95	3.95
21-1345	8"	Black	30 lbs.	2"	4.95	3.95
21-1350	11 1/4"	Natural	30 lbs.	3"	8.50	7.25
21-1355	11 1/4"	Black	30 lbs.	3"	8.50	7.25
21-1360	14 1/2"	Natural	30 lbs.	4"	9.90	8.25
21-1365	14 1/2"	Black	30 lbs.	4"	9.90	8.25

Heavy Duty Cable Ties

■ 50 per bag



Order #	Length	Color	Tensile Strength	Bundle Size	Price	
					(1-3)	(4-up)
21-1370	8 7/8"	Natural	120 lbs.	2"	\$10.95	\$9.50
21-1375	8 7/8"	Black	120 lbs.	2"	10.95	9.50
21-1380	11 7/8"	Natural	120 lbs.	3"	11.80	9.95
21-1385	11 7/8"	Black	120 lbs.	3"	11.80	9.95
21-1390	15 1/4"	Natural	120 lbs.	4"	12.95	10.95
21-1395	15 1/4"	Black	120 lbs.	4"	12.95	10.95

Mounting Cable Ties

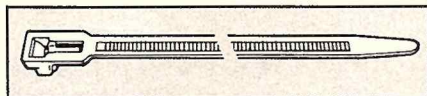
■ Natural color ■ 100 per bag



Order #	Length	Tensile Strength	Bundle Size	Price	
				(1-3)	(4-up)
21-1400	4 1/4"	18 lbs.	3/4"	\$6.50	\$5.50
21-1405	6 1/4"	30 lbs.	1 1/4"	6.95	5.85
21-1410	8 1/2"	50 lbs.	1 3/4"	9.45	7.85

Releasable Head Cable Ties

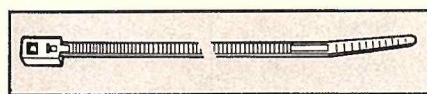
■ For prototype work
■ Natural color ■ 100 per bag



Order #	Length	Tensile Strength	Bundle Size	Price	
				(1-3)	(4-up)
21-1415	5 1/2"	50 lbs.	1 3/8"	\$10.50	\$8.90
21-1420	10"	50 lbs.	2 3/4"	14.95	12.95

Double Head Cable Ties

■ Allows two bundles to be harnessed together ■ Natural color ■ 100 per bag



Order #	Length	Tensile Strength	Bundle Size	Price	
				(1-3)	(4-up)
21-1425	8 1/4"	50 lbs.	8 1/4"	\$9.50	\$7.95
21-1430	12"	50 lbs.	12"	12.95	10.95
21-1435	15 1/2"	50 lbs.	15 1/2"	15.50	13.25

Identification Cable Ties

■ Tie and identify cable in one operation ■ Natural color

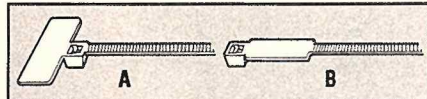
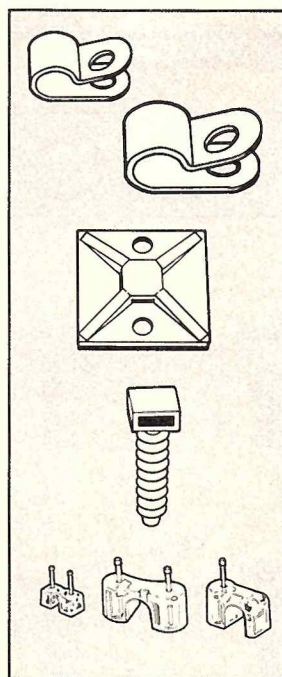


Fig	Order #	Size	Qty	Tensile Strength	Bundle Size	Price	
						(1-3)	(4-up)
A	21-1440	4 1/4"	100	18 lbs.	3/4"	\$9.95	\$8.50
B	21-1445	8"	100	50 lbs.	1 3/4"	14.95	12.95
B	21-1450	15"	50	50 lbs.	4"	14.95	12.95



Cable Clamps

■ Natural color ■ 50 per bag

Order #	Size	Price	
		(1-3)	(4-up)
21-1515	1/4"	\$2.75	\$2.25
21-1520	3/8"	2.95	2.45
21-1525	1/2"	3.05	2.50
21-1530	3/4"	3.95	3.30
21-1535	1"	4.95	4.25

Cable Tie Mounting Base Kit

■ Adhesive or screw mounting ■ Insertion can be made from all four sides ■ White ■ 100 per kit

#21-1460 \$13⁵⁰ (1-3 kits) \$11⁹⁵ (4 kits-up)

Cable Tie Masonry Mount

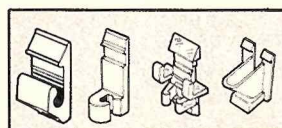
■ Permanent method of attaching wire and cable to masonry surfaces ■ Masonry mounts simply tap into predrilled .250" hole ■ Black ■ 50 per bag

#21-1465 \$14⁹⁵ (1-3 bags) \$12⁹⁵ (4 bags-up)

Masonry Clips

■ Masonry clips are a low cost, easy method for mounting telephone wire and CATV cable to cinderblock, masonry and concrete ■ 50 per bag

Order #	Dimensions (W) x (H) x (D)			Cable Diameter (Max.)	Price	
					(1-3)	(4-up)
21-1470	.625"	.250"	.250"	.188" (Phone)	\$14.95	\$12.95
21-1475	1.25"	.500"	.500"	.500" (CATV)	24.95	22.50
21-1480	.875"	.500"	.500"	.500" (CATV)	22.95	20.50



Aluminum Siding Clips

■ Siding clips are designed to hold CATV cable, telephone and ground wire to vinyl or aluminum siding ■ CATV clips hold 1/4" RG-59U or RG-6U coaxial cable ■ 100 per bag

Order #	Clip Type	Color	Dimensions (W) x (H) x (D)			Price	
						(1-3)	(4-up)
21-1485	Horizontal Phone	Olive	.375"	.221"	.625"	\$14.95	\$12.95
21-1490	Vertical Phone	Olive	.375"	.500"	1.10"	15.95	13.95
21-1505	Universal Phone	Clear	.625"	.300"	1.125"	15.95	13.95
21-1495	Horizontal CATV	White	.500"	.375"	.828"	14.95	12.95
21-1500	Vertical CATV	White	.750"	1.00"	1.375"	16.50	14.00



Telecom Identification Ties Kit

■ Pocket-Pac contains 50 of the most commonly used striped cable ties (ten each of blue, orange, green, brown and slate; all with white stripes)

#21-1455 \$4⁵⁰ (1-3 kits) \$3⁹⁵ (4 kits-up)

Rite-On Wire Markers

■ Self-laminating wire and cable markers ■ Ideal for marking multiple cable runs ■ Temperature range: -50°F. to 200°F.

#21-1510 \$9⁹⁵ (1-3) \$8⁹⁵ (4-up)



Cable Tie Kit

■ Durable polypropylene kit contains 300 of the most popular sizes of cable ties ■ 50 adhesive backed mounts and one Tytontwyster tool ■ Ideal for maintenance, engineering prototyping, field repairs and construction sites

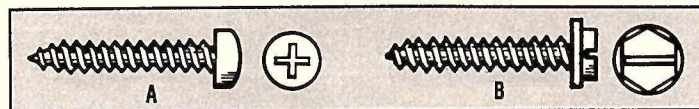
#21-1540 \$44⁰⁰ (kit)





Cabinet Screws

- Popular screws used in TV and stereo cabinets, VCR chassis and covers
- 100 per bag



A. Phillips Pan Head

- Black finish

Order #	Size	Price	
		(1-9 Bags)	(10 Bags-up)
28-0115	8 x 1/2"	\$2.30	\$1.90
28-0120	8 x 3/4"	2.05	1.65
28-0125	8 x 1"	2.90	2.35
28-0130	8 x 1 1/2"	3.35	2.95

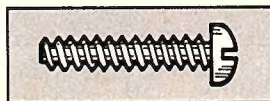
B. Slotted Hex Head

- Black finish

Order #	Size	Price	
		(1-9 Bags)	(10 Bags-up)
28-0135	8 x 1/2"	\$1.85	\$1.50
28-0140	8 x 3/4"	2.25	1.75
28-0145	8 x 1"	2.95	2.20
28-0150	8 x 1 1/2"	3.10	2.55

Metric Nuts and Screws

- 100 per bag



Order #	Size	Finish	Price	
			(1-9 Bags)	(10 Bags-up)
28-0045	2mm x 8mm Screw	Black	\$.80	\$.65
28-0050	2mm x 10mm Screw	Black	1.00	.85
28-0075	2mm x 8mm Screw	Nickel	1.25	1.05
28-0080	2mm x 10mm Screw	Nickel	.80	.70
28-0055	3mm x 6mm Screw	Black	1.20	1.00
28-0060	3mm x 8mm Screw	Black	1.30	.85
28-0065	3mm x 10mm Screw	Black	1.35	1.15
28-0070	3mm x 12mm Screw	Black	1.50	1.30
28-0085	3mm x 6mm Screw	Nickel	.80	.70
28-0090	3mm x 8mm Screw	Nickel	.80	.70
28-0095	3mm x 10mm Screw	Nickel	.85	.75
28-0100	3mm x 12mm Screw	Nickel	.95	.85
28-0105	2mm Nut	Nickel	1.10	1.00
28-0110	3mm Nut	Nickel	1.20	1.05

Sheet Metal Screw Assortment

- 95 piece assortment ■ Contains various lengths of #10, #8, #6 and #4 sheet metal screws ■ Display packaged

#28-0030 \$1.15 (1-9 pkgs.) \$1.05 (10 pkgs.-up)

Metric Bolt Assortment

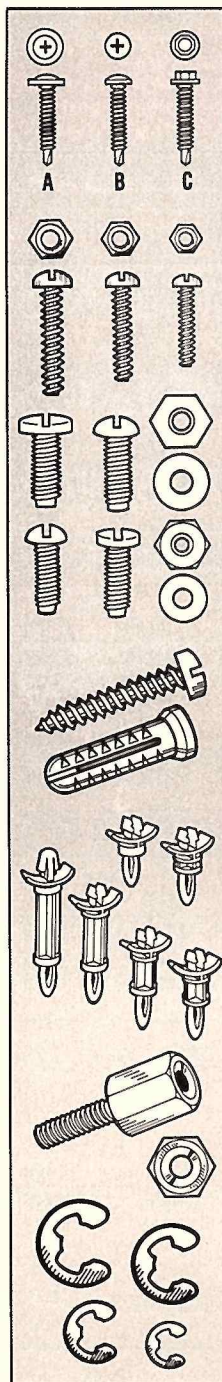
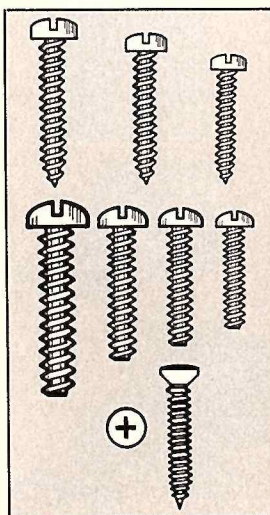
- 25 pieces of each: 2mm x 8mm, 2mm x 10mm, 3mm x 6mm, 3mm x 8mm and 3mm x 10mm

#28-0160 \$1.30 (1-9 pkgs.) \$1.10 (10 pkgs.-up)

#8 Phillips Screw

- #8 x 1" Phillips oval head screws ■ 100 per bag

#28-1135 \$1.95 (1-9 bags) \$1.75 (10 bags-up)



#8 x 1" Self-Tapping Screws

- 100 per bag

Fig.	Order #	Type
A	28-1150	Phillips truss head
B	28-1145	Phillips pan head
C	28-1140	Hex washer (Chrome)

\$3.95 (1-9 bags) \$3.75 (10 bags-up)

Nut and Bolt Kit

- 100 piece assortment of various sizes ■ Display packaged

#28-0035 \$1.10 (1-9 kits) 95¢ (10 kits-up)



Nylon Hardware Kit

- 120 piece assortment of the most popular nylon screws, nuts and washers ■ Contains 20 of each: 6-32 x 1/2" screws, 8-32 x 1/2" screws, 6-32 x 5/16" nuts, 8-32 x 7/16" nuts, #6 x 5/16" washers and #8 x 3/8" washers

#28-0795 \$8.45 (kit)

Plastic Anchor Kit

- Plastic expandable anchor kit ■ For mounting phone blocks, P.A. speakers, pictures, alarm boxes, parts bins and other items to drywall, concrete, mortar or plaster ■ Kit contains: 30 screws and 30 plastic anchors

#28-0032 \$1.95 (1-9 kits) \$1.35 (10-49 kits) \$1.20 (50 kits-up)

Nylon PC Board Standoff Assortment

- Nylon standoffs snap into .187" holes and allow circuit board to remain off chassis ■ Contains ten of each size: 3/16", 1/4", 3/8", 1/2", 3/4" and 1"

#28-1210 \$10.45 (pkg.)

DB Hex Nut Kit

- Use with wall plates ■ Replaces lost hex nuts on connectors ■ Can also be used as a PC board standoff ■ Kit contains: Ten hex posts and nuts

#83-885 99¢ (1-9 kits) 94¢ (10-49 kits) 89¢ (50 kits-up)

E-Clip Assortment

- Contains four of the most popular sizes: 1.5mm, 2.5mm, 3mm and 4mm ■ 25 pieces of each size

#28-0040 \$1.65 (1-9 pkgs.) \$1.15 (10 pkgs.-up)

1001 Piece Hardware Assortment

- Wide assortment of machine screws, cotter pins, split, flat and tooth washers, hex nuts, sheet metal screws, wood screws, wire, common and finish nails ■ Heavy duty 25 drawer cabinet ■ 25 identification labels ■ Safety stop trays prevent spillage

#28-1180 \$16.95 (ea.)



SOLDERLESS TERMINALS



Figure	Order #	Wire Gauge AWG	Tab Size	Qty. Per Box	Price (1-9 Boxes)	Price (10 Boxes-up)
A Female Terminal	28-830	22-18	.250	100	\$4.50	\$4.25
	28-829	22-18	.187	100	4.65	4.40
	28-833	22-18	.110	100	4.65	4.40
	28-223	16-14	.250	100	4.50	4.25
	28-831	16-14	.187	100	4.55	4.30
	28-835	16-14	.110	100	4.50	4.25
B Male Terminal	28-832	12-10	.250	100	4.50	4.25
	28-834	22-18	.250	100	4.15	3.90
	28-837	22-18	.187	100	4.50	4.25
	28-841	22-18	.110	100	4.50	4.25
	28-220	16-14	.250	100	4.25	3.95
	28-839	16-14	.187	100	4.50	4.25
C Insulated Female Terminal	28-843	16-14	.110	100	4.50	4.25
	28-836	12-10	.250	100	4.40	4.10
	28-838	22-18	.250	50	3.45	3.05
D Insulated Male Terminal	28-228	16-14	.250	50	3.45	3.05
	28-840	12-10	.250	50	3.45	3.05
	28-842	22-18	.250	50	4.20	3.95
E Piggyback	28-225	16-14	.250	50	3.95	3.75
	28-844	12-10	.250	50	4.50	4.20
F Bullet	28-846	22-18	.250	50	4.15	3.70
	28-848	16-14	.250	50	3.50	3.25
G Bullet Receptacle	28-215	22-18	.157	100	4.50	4.25
	28-850	16-14	.187	100	4.25	4.05
H Fuse Tap	28-218	22-18	.157	50	3.15	2.85
	28-852	16-14	.187	50	3.50	3.25
J Fuse Tap	28-0700	—	.250	10	.78	.70
	28-854	—	.250	300	7.30	6.50
	28-210	22-18	—	100	4.10	3.90
K Inline Splices	28-213	16-14	—	100	4.40	4.00
	28-856	12-10	—	50	3.40	3.05
	28-858	22-18	—	100	5.40	5.10
L Closed End	28-860	16-14	—	50	3.85	3.45
	28-862	12-10	—	50	3.25	3.05
	28-862	12-10	—	50	3.25	3.05

Figure	Order #	Wire Gauge AWG	Dia.	Qty. Per Box	Price (1-9 Boxes)	Price (10 Boxes-up)
M Pin Terminal	28-853	22-18	.07"	50	\$3.95	\$3.50
	28-855	16-14	.07"	50	3.95	3.50
	28-857	12-10	.1"	50	3.95	3.50

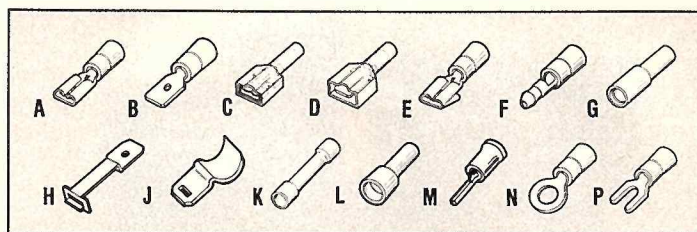


Figure	Order #	Wire Gauge AWG	Stud Size	Qty. Per Box	Price (1-9 Boxes)	Price (10 Boxes-up)
N Ring	28-801	22-18	#5	100	\$4.95	\$4.50
	28-802	22-18	#6	100	3.35	3.00
	28-804	22-18	#8	100	4.15	3.75
	28-803	22-18	#10	100	4.95	4.50
	28-805	22-18	1/4	50	4.95	4.50
	28-807	22-18	5/16	50	4.95	4.50
N Ring	28-809	22-18	3/8	50	4.95	4.50
	28-194	16-14	#5	100	4.95	4.50
	28-195	16-14	#6	100	3.85	3.45
	28-198	16-14	#8	100	3.50	3.25
	28-806	16-14	#10	100	3.80	3.40
	28-200	16-14	1/4	100	5.10	4.90
N Ring	28-808	16-14	5/16	100	5.20	4.65
	28-199	16-14	3/8	50	4.95	4.50
	28-201	16-14	1/2	50	4.95	4.50
	28-810	12-10	#8	100	4.95	4.70
	28-812	12-10	#10	50	3.00	2.70
	28-814	12-10	1/4	50	3.25	2.95
N Ring	28-816	12-10	5/16	50	3.55	3.35
	28-815	12-10	3/8	50	5.25	4.95
	28-817	12-10	1/2	50	5.25	4.95
	28-818	22-18	#6	100	3.20	2.90
P Spade	28-820	22-18	#8	100	3.50	3.25
	28-821	22-18	#10	100	5.25	4.95
	28-203	16-14	#6	100	3.95	3.60
P Spade	28-205	16-14	#8	100	3.70	3.40
	28-208	16-14	#10	100	3.75	3.50
	28-822	16-14	1/4	100	4.40	4.20
	28-824	12-10	#8	100	5.65	5.05
P Spade	28-826	12-10	#10	50	3.05	2.85
	28-828	12-10	1/4	50	3.05	2.80

Solderless Terminal Kit

- Contains 175 of the most popular insulated terminals and connectors, with 18 different styles (rings, spades, butt connectors, male and female disconnects) ■ Made of heavy-duty clear plastic ■ Includes a crimping tool
- Dimensions: 4" (W) x 8" (L) x 1 1/4" (D)

#28-690 \$10⁰⁰ (1-9 Kits) \$9⁴⁵ (10 Kits-up)



A. European Barrier Strips

- Molded plastic terminal blocks ■ Recessed set screws to prevent accidental contact ■ Great for alarm system installations ■ 600V, 10A per circuit

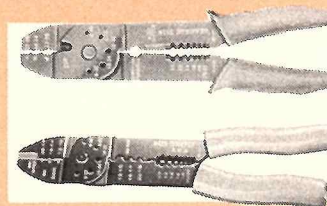
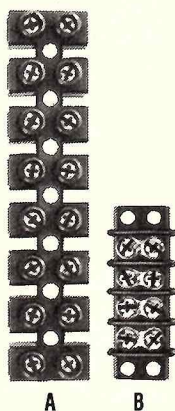
#28-990 (8 Position) \$1⁶⁵ (1-9) \$1⁴⁰ (10-up)

#28-995 (12 Position) \$2¹⁰ (1-9) \$1⁸⁵ (10-up)

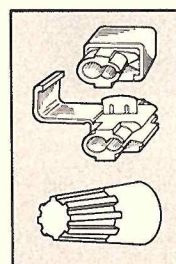
B. Double Row Terminal Strips

- 10A current rating ■ Made of black thermoplastic

Order #	# of Terminals	Length	Price (1-9)	Price (10-up)
28-710	4	2 1/4"	\$.67	\$.55
28-715	8	3 5/8"	1.35	1.15
28-720	12	5 1/4"	2.05	1.75
28-725	16	6 5/8"	2.80	2.55
28-730	20	8 3/8"	3.25	2.95



**SEE PAGE 36 FOR
MCM'S SELECTION OF
HIGH QUALITY CRIMP
TOOLS**



Tap Splice

- 18-14 gauge ■ 100 per package

#28-193 \$9²⁵ (1-9 pkgs.) \$8⁸⁰ (10 pkgs.-up)

Wire Nuts

- Twist on wire joints with tapered spring inserts ■ 100 per package

Order #	Color	Wire Size Min	Wire Size Max	Price (1-9 pkgs.)	Price (10 pkgs.-up)
28-550	Red	2#16	2#10	\$8.25	\$8.00
28-540	Yellow	2#18	2#12	7.50	6.95
28-525	Orange	2#20	2#16	5.00	4.75

IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



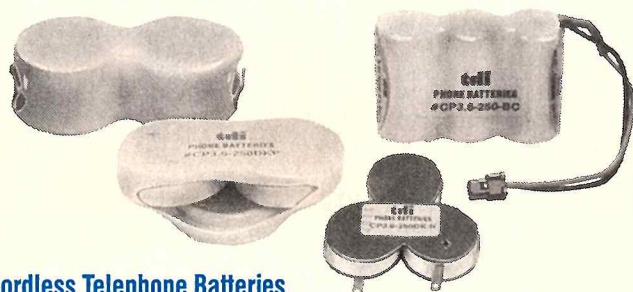


BATTERIES



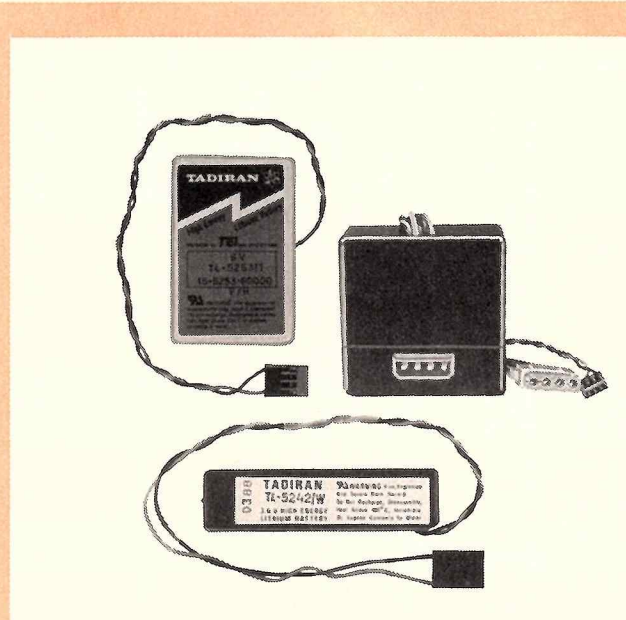
VCR and Camcorder Batteries

MCM carries a complete line of today's most popular VCR and camcorder batteries. For a listing and cross reference see page 110.



Cordless Telephone Batteries

Repair those cordless telephones yourself and save time and money. MCM stocks replacement battery packs for most popular cordless phones. Use the convenient cross reference on page 156 to find the battery pack needed.



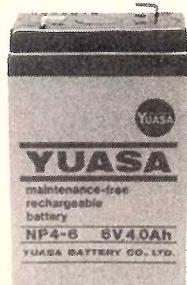
Computer Batteries

MCM stocks a variety of replacement computer batteries for IBM, Compaq, AST and many other brands. See page 70 for a complete listing and cross reference.

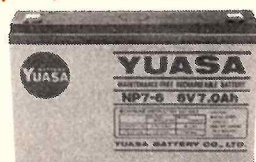


Maintenance-Free Batteries

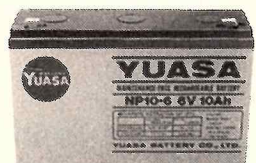
High energy density, sealed, leakproof construction. Excellent performance in either float or cyclic applications and long service life combine to make the Yuasa NP series the most reliable and versatile maintenance-free, rechargeable, sealed, lead acid batteries available. Yuasa products have applications within the Security, Telecommunication, Computer, Audio, Video, Test Equipment, Communication and Cellular Telephone fields.



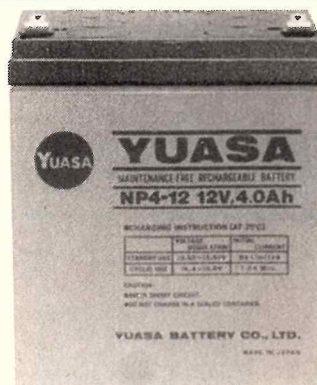
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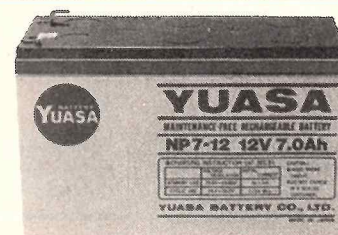
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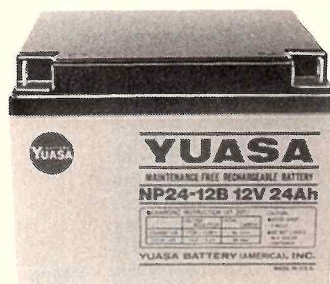
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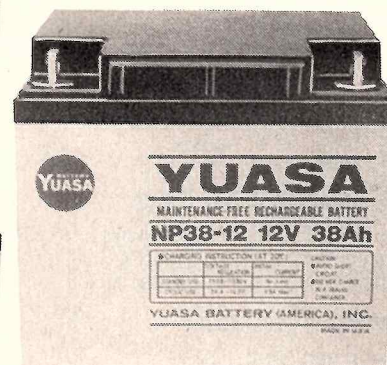
#29-790



#29-795



#29-800



#29-805

Charging Methods

■ Constant voltage charging at 20°C (68°F) ■ Standby use: No charging current limit is required; charging voltage: 2.25-2.30V per cell ■ Cyclic use: Maximum charging current: 25% of rated capacity; charging voltage: 2.35-2.50V per cell.

6 volts

Order #	Yuasa #	Ah	Length	Width	Height	Weight Lbs.	Terminals	Price (ea.)
29-775	NP4-6	4.0	2 3/4"	1 13/16"	4 1/8"	1.87	.250 tab	\$12.50
29-780	NP7-6	7.0	5 15/16"	1 5/16"	3 13/16"	3.22	.250 tab	17.90
29-785	NP10-6	10.0	5 15/16"	1 5/16"	3 13/16"	4.41	.250 tab	19.95

12 volts

Order #	Yuasa #	Ah	Length	Width	Height	Weight Lbs.	Terminals	Price (ea.)
29-790	NP4-12	4.0	3 9/16"	2 3/4"	4 3/16"	3.74	.250 tab	\$27.80
29-795	NP7-12	7.0	5 15/16"	2 9/16"	3 13/16"	6.17	.250 tab	32.50
29-800	NP24-12B	24.0	6 9/16"	6 7/8"	4 15/16"	19.10	.472 bolt	88.90
29-805	NP38-12	38.0	7 3/4"	6 1/2"	6 11/16"	30.40	.590 bolt	95.50



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



EVEREADY Batteries

All Eveready batteries come in display packages

A. General Purpose

Description/Eveready #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells 950-2	29-170	\$1.80	\$1.60
2 "C" cells 935-2	29-175	1.80	1.60
2 "AA" cells 1015BP-2	29-180	1.09	.98
2 "AAA" cells 912BP-2	29-185	.98	.88
1 9V blister pack 216BP	29-190	1.20	1.08
1 6V lantern 3 1/4" x 3 1/4" x 4 1/2" 509	29-192	3.49	3.14

B. Super Heavy Duty

Description/Eveready #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells blister pack 1250BP-2	29-195	\$1.77	\$1.59
2 "C" cells blister pack 1235BP-2	29-200	1.77	1.59
2 "AA" cells blister pack 1215BP-2	29-205	1.24	1.12
1 9V blister pack 1222BP	29-210	1.99	1.79

C. Energizer Alkaline

Description/Eveready #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells blister pack E95BP-2	29-215	\$3.60	\$3.25
2 "C" cells blister pack E93BP-2	29-220	3.60	3.25
2 "AA" cells blister pack E91BP-2	29-225	2.54	2.29
2 "AAA" cells blister pack E92BP-2	29-230	2.54	2.29
1 9V blister pack 522BP	29-235	3.60	3.25

D. Nickel Cadmium Rechargeable

Description/Eveready #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells blister pack CH50BP-2	29-155	\$11.60	\$10.95
2 "C" cells blister pack CH35BP-2	29-150	11.60	10.95
2 "AA" cells blister pack CH15BP-2	29-145	9.25	8.75
1 9V blister pack (7.2V) CH22BP	29-160	11.60	10.95

DURACELL "N" Type Battery

- Popular battery used in TV remote controls
- Sold in pairs ■ Display packaged ■ Duracell #MN9100B2

#29-445

\$2.94 (1-4 pkgs.) \$2.80 (5-9 pkgs.) \$2.38 (10 pkgs.-up)

DURACELL "J" Type Battery

- Popular battery for use in TV remote controls ■ 6V alkaline
- Duracell #7K67

#29-410

\$4.20 (1-4) \$4.00 (5-9) \$3.40 (10-up)

cti Solder Tab AA Nicad

- Custom design battery packs for cordless telephones, RC vehicles, etc. ■ 1.3V at .5Ah

#29-365

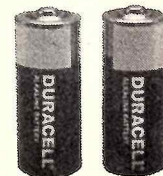
\$2.67 (1-4) \$2.40 (5-up)

SANYO Fast Charge Cadnica Battery

- Sub "C" size rechargeable nickel cadmium battery ■ 1.2V, 1.2Ah ■ Attached solder tabs make designing your own battery pack simple ■ Ideal for making custom battery packs for remote control vehicles ■ Charging time: 14-16 hours at 120mA, 4-6 hours at 360mA and about 1 hour on fast charge at 1.8Ah

#29-435

\$6.33 (1-4) \$5.70 (5-up)



Rocket Batteries

Rocket Battery Company is a leading manufacturer of dry batteries. All Rocket batteries have double steel can construction and are sealed with a special wax and synthetic resin to prolong life and prevent leakage.



Alkaline

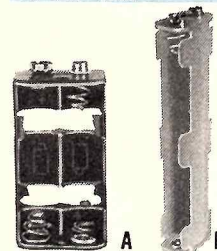
Description/Battery #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells AM-1	29-350	\$1.95	\$1.76
2 "C" cells AM-2	29-310	1.62	1.45
4 "AA" cells AM-3	29-315	2.26	2.03
4 "AAA" cells AM-4	29-320	2.26	2.03
1 9V 2002	29-705	1.62	1.46

Zinc Carbon

Description/Battery #	Order #	Price	
		(1-9)	(10-up)
2 "D" cells UM-1	29-335	\$.60	\$.54
2 "C" cells UM-2	29-340	.52	.47
4 "AA" cells UM-3	29-345	.97	.87
1 9V 1004	29-300	.54	.49

Nicad

Description	Order #	Price	
		(1-9)	(10-up)
4 "AA" cells	29-355	\$8.24	\$7.83



"AA" Battery Holders

- Commonly used in portable radios ■ Good for project boxes ■ Both have 9V type outputs ■ Four "AA" batteries in series (6V) ■ Two styles available

Fig.	Order #	Dimensions	Price	
			(1-9)	(10-up)
A	29-625	1 1/4" (W) x 1" (H) x 2 1/4" (D)	\$.89	\$.50
B	29-630	5/8" (W) x 1" (H) x 4 1/4" (D)	.89	.50

DURACELL Button Cell Batteries

- For use in watches, calculators and many other devices



Order #	Duracell #	Varta #	Eveready #	Maxell #	(1-4)	Price (5-9)	(10-up)
29-450	D186AB	V12GA	186	LR43	\$1.05	\$1.00	\$.85
29-455	D189AB	V10GA	189	LR1130	1.05	1.00	.85
29-460	D191AB	V8GA	191	LR1120	1.05	1.00	.85
29-465	D301B	528/V301	301	SR43SW	1.37	1.30	1.11
29-470	D303B	521/V303	303	SR44SW	1.58	1.50	1.28
29-475	D321B	540	321	SR616SW	1.05	1.00	.85
29-480	D323B	506	323	—	1.26	1.20	1.02
29-485	D343B	509/V343	343	—	1.05	1.00	.85
29-490	D357B	541/V357	357	SR44W	1.58	1.50	1.28
29-495	D362B	532/V362	362	SR721SW	.95	.90	.77
29-500	D364B	531/V364	364	SR621SW	.84	.80	.68
29-505	D366B	—	366	SR1116SW	1.16	1.10	.94
29-510	D370B	—	370	SR920W	.95	.90	.77
29-515	D371B	537	371	SR920SW	.95	.90	.77
29-520	D377B	—	377	SR626SW	1.05	1.00	.85
29-525	D381B	533	381	SR1120SW	1.05	1.00	.85
29-530	D384B	527/V384	384	SR41SW	.84	.80	.68
29-535	D386B	548/V386	386	SR43W	1.37	1.30	1.11
29-540	D389B	554/V389	389	SR1130W	.95	.90	.77
29-545	D391B	553/V391	391	SR1120W	1.05	1.00	.85
29-550	D392B	547/V392	392	SR41W	.84	.80	.68
29-555	D393B	546/V393	393	SR754W	1.05	1.00	.85
29-560	D394B	524/V394	394	SR936SW	1.05	1.00	.85
29-565	D395B	523/V395	395	SR926SW	.95	.90	.77
29-570	D396B	—	396	SR726W	1.05	1.00	.85
29-575	D397B	—	397	SR726SW	1.05	1.00	.85
29-580	D399B	—	399	SR926W	.95	.90	.77
29-585	DL1620B	CR1620	—	—	1.68	1.60	1.36
29-590	DL2016B	CR2016	E-CR2016	CR2016	1.68	1.60	1.36
29-595	DL2025B	CR2025	E-CR2025	CR2025	1.68	1.60	1.36
29-600	DL2032B	CR2032	E-CR2032	CR2032	1.68	1.60	1.36
29-605	DL2420B	CR2420	—	—	1.68	1.60	1.36
29-610	DL2430B	CR2430	—	—	1.68	1.60	1.36
29-615	DL2450B	—	—	—	3.15	3.00	2.55
29-620	PX76AB	V13GA	A76	LR44	1.16	1.10	.94



BATTERY CHARGERS AND ADAPTORS

AC Adaptors

TENMA™ Universal

■ Adjustable 3V, 4.5V, 6V, 7.5V, 9V and 12V ■ 500mA ■ Reversible polarity ■ Interchangeable tips: 3.5mm, 2.5mm, 5.5mm x 2.5mm, 5.0mm x 2.5mm, 3.5mm x 1.5mm and 3.0mm x 1.0mm

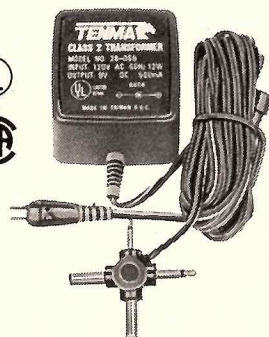
#28-1020 \$9²⁵₍₁₋₉₎ \$8⁷⁵_(10-up)



TENMA™ 9 Volt Universal

■ 9VDC, 500mA output ■ 12W power consumption ■ 14' cord with four-way universal plug ■ 120V input ■ Reversible polarity

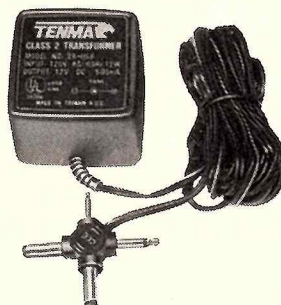
#28-059 \$5⁷⁰₍₁₋₉₎ \$5¹⁰_(10-up)



TENMA™ 12 Volt Universal

■ 12VDC, 500mA output ■ 12W power consumption ■ 14' cord with four-way universal plug ■ 120VAC input

#28-056 \$5⁴⁵₍₁₋₉₎ \$4⁹⁰_(10-up)



TENMA™ Atari Type

■ For use with Atari Video Game Systems ■ 9VDC, 500mA output ■ 12W power consumption ■ 14' cord with 3.5mm plug ■ Positive at tip ■ 120V input ■ Atari #C014034

#28-058 \$4⁹⁵₍₁₋₉₎ \$4⁷⁰_(10-up)



TENMA™ 6 Volt

■ Works with standard 120V, 60Hz power line ■ 8W power consumption ■ 6VDC output at 300mA ■ 3.5mm jack, positive at tip

#28-050 \$4³⁰₍₁₋₉₎ \$3⁹⁵_(10-up)



TENMA™ 9 Volt

■ 120VAC input, 4W power consumption ■ 9VDC, 100mA output ■ Subminiature plug, positive at tip

#28-055 \$3⁶⁵₍₁₋₉₎ \$3¹⁰_(10-up)



Casio Type Adaptor

■ Replaces Casio #AD-5U ■ Used for models: AZ-1, CPS-101, CT-360, CT-450, CT-510, CT-630, CZ-101, CZ-230S, CZ-1000, DZ-1, HZ-700, HT-3000, HT-6000, HZ-600, MT-88, MT-110, MT-205, MT-220, MT-520, MT-600, MT-820, SK-100, SK-200, SK-2100 ■ 9VDC, 850mA output ■ 6' cord ■ 120VAC input

#28-0770 \$9⁹⁵_(ea.)



DC Converter

■ Input: 12VDC ■ Output: 3V, 4.5V, 6V, 7.5V, 9V, and 12V switchable at 800mA ■ 5' cord with four-way universal plug and 9V battery snap ■ Polarity of plugs is also switchable ■ Plugs into car cigarette lighter

#28-0295 \$7⁵⁰₍₁₋₉₎ \$6⁹⁵_(10-up)

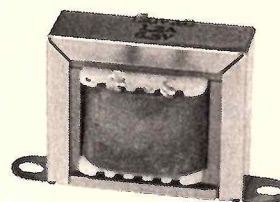
Battery Charger

■ Will charge up to four batteries simultaneously ■ Trickle charger for use with nickel cadmium batteries only ■ Will charge "AA", "C", "D" and 9V batteries individually or together ■ Features a test lamp which indicates if battery is strong or weak ■ 120VAC input

#29-660 \$9⁹⁵_(ea.)



Power Transformers



These high quality power transformers can be used in new equipment or as replacements. Popular high current outputs. Heavy duty casing has holes for chassis mounting. Standard solder lugs on the input and output. Primary: 117VAC, 60Hz.

Order # Description	Dimensions (W x H x D)	Primary	Secondary	Price
28-0000 6.3V	2 1/2" x 1 11/16" x 1 7/8"	117VAC	6.3V 1.2A	\$3.35
28-0010 12.6V	2 1/2" x 1 11/16" x 1 7/8"	117VAC	12.6V 1.2A	4.45
28-0015 25.6V	2 1/4" x 2 3/4" x 2"	117VAC	25.6V 2.0A	6.60



Caig Laboratories has been manufacturing high-quality chemicals and soldering apparatus since 1956. Caig's popular Cramolin and Caeon aerosols contain ozone safe propellents and are used extensively in the lubrication and preservation of all metal contacts, including gold. Use Cramolin as a preservative and curative solution for all electronics/ electrical contacts and connectors.

Caeon 27 Spray and Liquid

- For removal of oil, grease and dirt from surface
- Harmless to metal, plastic or rubber ■ No residue, non-flammable ■ Similar to TF solvent

Mfg. #CL-27-S*

- Ozone safe propellant ■ 16 oz. aerosol

#200-014 \$10⁹⁵ (1-3) \$9⁹⁵ (4-up)

Mfg. #CL-27-12

- 12 oz. liquid

#200-015 \$12⁰⁵ (1-3) \$10⁹⁵ (4-up)

Precision Instrument Oiler

- Lubricates precision instruments and fine parts mechanisms ■ Contains silicone ■ For use on gauges, gears, clocks, instruments, rubber, plastic and metal ■ 25cc precision needle dispenser

Mfg. #X10S-25C

#200-017 \$4⁷⁰ (1-3) \$4²⁵ (4-up)

Cramolin Paste Type Deoxidizer

- Deoxidizing treatment for contacts and connectors
- Semi-solid form for use as a combination cleaning, protecting and lubricating preparation ■ Improve performance of electrical contacts and collector ring assemblies ■ Reduces sparking of commutator brushes
- 81Rc includes copper particles to break up oxides
- 81Yf does not ■ 1oz. container

Mfg. #81Rc

#200-009

Mfg. #81Yf

#200-010 \$6⁰⁵ (1-3) \$5⁵⁰ (4-up)

Solder/Accessories

AG Solder Kit

- Solder almost any metal including hard to solder types such as stainless steel and chrome ■ Includes 10' of 1mm diameter silver solder, 5/8 oz. squeeze bottle AG flux

Mfg. #CL-AGK-4

#200-018 \$16⁵⁰ (1-3 kits) \$15⁰⁰ (4 kits-up)

Polypropylene Extension Spray Tube

- 24" long tube used for hard-to-reach areas

Mfg. #PE-24

#200-004 55¢ (1-3) 50¢ (4-up)

Cleaning Brush

- Nylon brush for cleaning contacts and connectors
- Six per package

Mfg. #AB-6

#200-016 \$2⁹⁵ (1-3 pkgs.) \$2⁵⁰ (4 pkgs.-up)

*Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.



Cramolin Aerosols



Cramolin Red R2 and R5 Deoxidizer

- R2 and R5 deoxidizer performance aerosol deoxidizes, cleans, preserves and lubricates electrical/electronic contacts ■ R2 provides an ultra-light coating (2%) ■ R5 provides a light coating for breaking up oxides (5%)
- 6 oz. can ■ Ozone safe propellents

Mfg. #R2-6*

#200-001 \$8⁷⁵ (1-3) \$7⁹⁵ (4-up)

Mfg. #R5-6*

#200-002 \$9¹⁰ (1-3) \$8²⁵ (4-up)

Cramolin Blue B5 Premium Preservative

- Premium preservative and lubricant for maximum protection lubricating electrical/ electronic components
- Provides a light coating for preservation ■ 6 oz. can
- Ozone safe propellant

Mfg. #B5-6*

#200-003 \$9³⁵ (1-3) \$8⁵⁰ (4-up)

Cramolin Liquids



Precision dispensers provide precise application of Cramolin Deoxidizer (R100L) and Preservative (B100L)

Red Deoxidizer

- 100% red liquid lubricant cleans and preserves electrical contacts and connectors

2 Dram Bottle and Brush

#200-005 \$5²⁵ (1-3) \$4⁷⁵ (4-up)

25cc Precision Needle Dispenser

#200-006 \$13¹⁵ (1-3) \$11⁹⁵ (4-up)

Blue Preservative

- 100% blue liquid preserves newly manufactured contacts and connectors, as well as ones precleaned with deoxidizer

2 Dram Bottle and Brush

#200-007 \$5⁷⁰ (1-3) \$5¹⁵ (4-up)

25cc Precision Needle Dispenser

#200-008 \$13²⁰ (1-3) \$12⁰⁰ (4-up)

Cramolin Kits



R-2 Spray Tech Kit

- Includes Cramolin deoxidizer R-2, lint free cloth, foam swabs and cleaning brushes
- Ozone safe propellant

Mfg. #K-100C*

#200-013 \$12⁶⁵ (1-3 kits) \$11⁷⁰ (4 kits-up)

Cramolin Electronic Maintenance Kit

- Includes Cramolin deoxidizer and premium preservative 2 dram bottle with brush, lint-free cloth and paper, cleaning swabs and AB brushes

Mfg. #K-100A

#200-012 \$19⁷⁵ (1-3 kits) \$17⁹⁵ (4 kits-up)

Cramolin/Caenon Technicians Kit

- Kit includes Cramolin deoxidizer R-5, Caenon 27 spray, Cramolin deoxidizer and premium preservative, 2 dram bottle with brush, Cramolin 81Rc paste, lint-free cloth and paper, cleaning swabs and brushes ■ Ozone safe propellents

Mfg. #K-405T*

#200-011 \$51⁹⁵ (kit)



The MCM brand chemical line consists of quality chemicals vital to the home electronics repair industry. Each one is manufactured under strict quality control to insure consistent performance. 3 oz. versions are now available for the field service technician. The smaller size will fit conveniently into most tool cases.

A. Tuner Cleaner

■ Cleans, lubricates and protects ■ Restores dirty and corroded contacts ■ For controls and switches too ■ Silicone base ■ Doesn't harm plastics ■ Adjustable spray nozzle ■ 12 cans per case ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-211	\$2 ⁴⁵ ₍₁₋₅₎	\$2 ³⁵ ₍₆₋₁₁₎	\$2 ²⁵ ₍₁₂₋₂₃₎	\$2 ¹⁵ _(24-up)
16 oz.				
#20-210	\$9 ⁶⁰ ₍₁₋₅₎	\$8 ²⁵ ₍₆₋₁₁₎	\$7 ⁴⁰ ₍₁₂₋₂₃₎	\$6 ⁶⁵ _(24-up)

B. TF Solvent

■ A solvent that dissolves dust and oxide particles on tape heads and restores clear contact for better recording and playback ■ Non-conductive ■ Non-residue formula ■ Contains virgin freon TF ■ Adjustable nozzle regulates spray force ■ 12 cans per case ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-491	\$2 ⁵⁵ ₍₁₋₅₎	\$2 ⁴⁵ ₍₆₋₁₁₎	\$2 ³⁵ ₍₁₂₋₂₃₎	\$2 ²⁵ _(24-up)
16 oz.				
#20-490	\$8 ⁴⁰ ₍₁₋₅₎	\$7 ²⁵ ₍₆₋₁₁₎	\$6 ⁵⁰ ₍₁₂₋₂₃₎	\$5 ⁸⁵ _(24-up)

C. Video Head Cleaner

■ Designed to clean magnetic tape heads ■ Evaporates quickly ■ Non-residue formula ■ Spray directly on heads for more effective cleaning ■ Harmless to plastic and rubber ■ Adjustable spray nozzle ■ 12 cans per case ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-1001	\$2 ⁵⁵ ₍₁₋₅₎	\$2 ⁴⁵ ₍₆₋₁₁₎	\$2 ³⁵ ₍₁₂₋₂₃₎	\$2 ²⁵ _(24-up)
16 oz.				
#20-1000	\$8 ⁶⁵ ₍₁₋₅₎	\$7 ⁵⁰ ₍₆₋₁₁₎	\$6 ⁷⁵ ₍₁₂₋₂₃₎	\$6 ⁰⁵ _(24-up)

D. 1,1,1, Cleaner

■ Use to clean and degrease test and regulating equipment, electric motors, switches and relays ■ Removes grease, dirt and other contaminants ■ Non-residue formula ■ Non-conductive, non-staining and non-corrosive to metals ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-986	\$1 ⁷⁵ ₍₁₋₅₎	\$1 ⁶⁵ ₍₆₋₁₁₎	\$1 ⁵⁵ ₍₁₂₋₂₃₎	\$1 ⁴⁵ _(24-up)
16 oz.				
#20-985	\$3 ³⁰ ₍₁₋₅₎	\$2 ⁹⁰ ₍₆₋₁₁₎	\$2 ⁶⁰ ₍₁₂₋₂₃₎	\$2 ³⁵ _(24-up)

E. Super Wash

■ A powerful spray that cleans intricate electronic assemblies and does not harm plastics ■ Dries quickly ■ Spray literally blasts dirt and grease away ■ Adjustable spray nozzle ■ 12 cans per case ■ Available in 3 oz. or 24 oz. cans*

3 oz.				
#20-291	\$2 ⁵⁰ ₍₁₋₅₎	\$2 ⁴⁰ ₍₆₋₁₁₎	\$2 ³⁰ ₍₁₂₋₂₃₎	\$2 ²⁰ _(24-up)
24 oz.				
#20-290	\$11 ⁷⁵ ₍₁₋₅₎	\$9 ⁶⁰ ₍₆₋₁₁₎	\$8 ⁶⁵ ₍₁₂₋₂₃₎	\$7 ⁷⁵ _(24-up)

F. Circuit Cooler

■ Non-residue formula ■ Cools circuits instantly for rapid location of heat related problems ■ Adjustable spray nozzle ■ 12 cans per case ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-221	\$2 ⁵⁵ ₍₁₋₅₎	\$2 ⁴⁵ ₍₆₋₁₁₎	\$2 ³⁵ ₍₁₂₋₂₃₎	\$2 ²⁵ _(24-up)
16 oz.				
#20-220	\$9 ⁷⁰ ₍₁₋₅₎	\$8 ³⁵ ₍₆₋₁₁₎	\$7 ⁵⁰ ₍₁₂₋₂₃₎	\$6 ⁷⁵ _(24-up)

G. Silicone Spray

■ High quality silicone lubricant for use on almost any surface ■ FDA approved ■ Non-flammable ■ Waterproofs ■ Prevents rust ■ 12 cans per case ■ Available in 3 oz. or 16 oz. cans*

3 oz.				
#20-501	\$2 ⁴⁰ ₍₁₋₅₎	\$2 ³⁰ ₍₆₋₁₁₎	\$2 ²⁰ ₍₁₂₋₂₃₎	\$2 ¹⁰ _(24-up)
16 oz.				
#20-500	\$6 ⁵⁰ ₍₁₋₅₎	\$5 ⁷⁵ ₍₆₋₁₁₎	\$5 ²⁰ ₍₁₂₋₂₃₎	\$4 ⁷⁰ _(24-up)

H. Dust-A-Way

■ An easy way to remove dust and dirt from even hard-to-reach places ■ Non-residue formula ■ Non-flammable ■ Safe for most plastics ■ Adjustable spray nozzle ■ 12 cans per case ■ Available in 3 oz. or 18 oz. cans*

3 oz.				
#20-871	\$2 ⁵⁵ ₍₁₋₅₎	\$2 ⁴⁵ ₍₆₋₁₁₎	\$2 ³⁵ ₍₁₂₋₂₃₎	\$2 ²⁵ _(24-up)
18 oz.				
#20-870	\$7 ⁹⁵ ₍₁₋₅₎	\$6 ⁸⁵ ₍₆₋₁₁₎	\$6 ¹⁵ ₍₁₂₋₂₃₎	\$5 ⁵⁵ _(24-up)

J. Static Neutralizer

■ Will dissipate static on contact ■ Prevents data errors and circuit damage that result from electrostatic discharge ■ Safe on most materials ■ For counter tops and equipment, spray on folded towel to make a static neutralizing pad ■ Non-toxic, non-flammable ■ 16 oz. can*

#20-895	\$5 ⁰⁵ ₍₁₋₅₎	\$4 ⁵⁵ ₍₆₋₁₁₎	\$4 ¹⁰ ₍₁₂₋₂₃₎	\$3 ⁷⁵ _(24-up)
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Due to new government regulations for aerosol products, chemical pricing is subject to change. Please verify pricing with your MCM Sales Representative.

***Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.**



A. Television Tube Coat

■ Helps to repair scratched or rebuilt CRTs ■ Made of conductive, graphite-pigmented lacquer ■ Leaves a static eliminating shield on tubes ■ Used by leading manufacturers ■ Fast drying ■ 12 oz. *

#20-940 \$5⁸⁵₍₁₋₅₎ \$5²⁰₍₆₋₁₁₎ \$4⁷⁰₍₁₂₋₂₃₎ \$4²⁵_(24-up)

B. EMI/RFI Shield

■ Shields sensitive devices from EMI and RFI emissions ■ Reduces RF interference an average of 35-50dB at two mils thickness ■ Adheres well to most plastics, glass, etc. ■ Use below 180°F ■ 12 oz. *

#20-965 \$7⁶⁵₍₁₋₅₎ \$6⁸⁰₍₆₋₁₁₎ \$6¹⁵₍₁₂₋₂₃₎ \$5⁵⁰_(24-up)

C. High Voltage Putty

■ Insulating silicone rubber putty for suppressing coronas and arcs in high voltage systems ■ Great for coating sharp points and edges which cannot be coated with conventional sprays ■ Sticks to most clean materials ■ Will not harden or shrink ■ Non-flammable ■ 1 1/4 oz.

#20-975 \$4⁹⁵₍₁₋₅₎ \$4³⁰₍₆₋₁₁₎ \$3⁹⁰₍₁₂₋₂₃₎ \$3⁵⁰_(24-up)

D. Flux Remover

■ Safe for most components ■ Will not remove markings from capacitors or like components ■ Static free ■ A moderate strength flux remover ■ 14 oz. *

#20-935 \$8⁹⁰₍₁₋₅₎ \$7⁶⁵₍₆₋₁₁₎ \$6⁹⁰₍₁₂₋₂₃₎ \$6²⁰_(24-up)

E. Polystyrene Q-Dope Thinner

■ Used to thin polystyrene based coil dopes and cements ■ Can also be used for cementing polystyrene materials ■ 2 fl. oz. bottle

#20-980 \$3¹⁰₍₁₋₅₎ \$2⁷⁰₍₆₋₁₁₎ \$2⁴⁰₍₁₂₋₂₃₎ \$2¹⁵_(24-up)

F. Radio and TV Service Cement

■ For gluing porous or semi-porous materials together or to non-porous materials ■ Vibration resistant ■ Great for repairing speaker cones ■ Quick drying, waterproof and clear ■ 12 fl. oz. bottle with brush

#20-875 \$3⁶⁰₍₁₋₅₎ \$3¹⁰₍₆₋₁₁₎ \$2⁸⁰₍₁₂₋₂₃₎ \$2⁵⁰_(24-up)

G. Radio and TV Service Solvent

■ For dissolving cement commonly used in radio and TV equipment ■ Fast acting ■ May also be used as a thinner for all lacquer type cements ■ 2 fl. oz. bottle ■ Used to dissolve cement similar to #20-875

#20-880 \$3⁷⁰₍₁₋₅₎ \$3⁰⁵₍₆₋₁₁₎ \$2⁷⁵₍₁₂₋₂₃₎ \$2⁴⁸_(24-up)

H. Tunerlub

■ Special lubricant for high frequency contact applications such as television tuners ■ Purified without traces of metals or metal oxides ■ Helps to protect against oxidation and corrosion ■ 1 3/4 fl. oz. tube

#20-395 \$3³⁵₍₁₋₅₎ \$2⁹⁰₍₆₋₁₁₎ \$2⁶⁰₍₁₂₋₂₃₎ \$2³⁵_(24-up)

J. Teles-Oil

■ Highly refined natural petroleum oil for general purpose lubrication on motors, small gears, sliding mechanisms, etc. ■ Inhibits rust and oxidation ■ Includes a wetting agent for better penetration ■ Comes with a spout which telescopes to 7" ■ 4 fl. oz. bottle

#20-410 \$3⁹⁰₍₁₋₅₎ \$3⁴⁰₍₆₋₁₁₎ \$3⁰⁵₍₁₂₋₂₃₎ \$2⁷⁴_(24-up)

K. Phonolube

■ Light bodied grease made of polymerized oil ■ Specially developed for the lubrication of small geared mechanisms such as phonographs, record changers, TV channel and record mechanisms, etc. ■ Retains its viscosity over a wide range of temperatures ■ 2 fl. oz. tube

#20-415 \$3⁷⁰₍₁₋₅₎ \$3²²₍₆₋₁₁₎ \$2⁹⁰₍₁₂₋₂₃₎ \$2⁶⁰_(24-up)

L. Luberex Grease

■ Lithium grease compound for general use in industry, shop and home ■ Provides excellent lubrication for appliances, hand tools, business machines and bearings ■ Excellent dielectric properties ■ 2 fl. oz. tube

#20-885 \$3⁸⁰₍₁₋₅₎ \$3³⁰₍₆₋₁₁₎ \$2⁹⁵₍₁₂₋₂₃₎ \$2⁷⁰_(24-up)

M. Silicone Compound

■ Soft, inert silicone grease with excellent dielectric properties ■ Provides an excellent dielectric coating which excludes moisture and helps prevent high voltage arcing ■ Provides an outstanding corrosion resistant coating on exposed metal surfaces; such as TV antenna terminals ■ 1 fl. oz. tube

#20-400 \$7⁵⁰₍₁₋₅₎ \$6⁷⁰₍₆₋₁₁₎ \$6⁰⁰₍₁₂₋₂₃₎ \$5⁴⁰_(24-up)

N. Liquid Tape

■ Heavy bodied, black insulating coating which replaces insulating tape in applications where wrap-around tape cannot be applied ■ This compound dries quickly to a strong pliable finish that will not crack, peel or chip ■ 2 fl. oz. bottle with brush *

#20-390 \$5⁰⁵₍₁₋₅₎ \$4⁴⁰₍₆₋₁₁₎ \$3⁹⁵₍₁₂₋₂₃₎ \$3⁵⁵_(24-up)

P. Glass and Plastic Cleaner

■ A quick-drying compound that removes dirt and grease safely from all glass or plastic surfaces without leaving streaks or residue ■ Contains grease-cutting ammonia for thorough cleaning action ■ 14 oz. ■ 12 cans per case *

#20-465 \$4⁵⁰₍₁₋₅₎ \$3⁹⁰₍₆₋₁₁₎ \$3⁵⁰₍₁₂₋₂₃₎ \$3²⁰_(24-up)

Q. Isopropyl Alcohol

■ Isopropyl alcohol ■ Water free non-residue ■ Excellent for use as solvent/contact cleaner for tape heads, PC boards, etc. ■ 16 oz. non-aerosol can

#20-1095 \$5¹⁰₍₁₋₅₎ \$4⁴⁵₍₆₋₁₁₎ \$3⁹⁵₍₁₂₋₂₃₎ \$3⁵⁵_(24-up)

FOR GC LIQUID SOLDERING FLUX AND PASTE SEE PAGE 32

*Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.



CHEMTRONICS CHEMICALS



Chemtronics

A. Video Renu

- Non-residue cleaner for video/audio tape heads ■ Removes surface oxides
- Evaporates quickly ■ Safe on most rubber and plastics ■ Extends tape life
- 24 oz. can ■ 12 cans per case*

#20-1030 \$14⁸⁵₍₁₋₅₎ \$13⁷⁵₍₆₋₁₁₎ \$12⁴⁵₍₁₂₋₂₃₎ \$11²⁰_(24-up)

B. Tuner Renu

- One step cleaner and lubricant for periodic tuner maintenance ■ Cleans and restores corroded contacts ■ Safe for most plastics ■ 16 oz. can ■ 24 cans per case*

#20-1025 \$9⁹⁰₍₁₋₅₎ \$8⁷⁵₍₆₋₁₁₎ \$7⁹⁰₍₁₂₋₂₃₎ \$7¹⁰_(24-up)

C. Head Cleaner™

- Significantly reduces head wear, extends tape/disc life ■ Specially formulated to remove contaminants from sensitive magnetic tape/disc heads and tape transport mechanisms ■ Harmless to plastic and rubber ■ Evaporates quickly ■ Non-residue formula ■ 24 oz. can ■ 12 cans per case*

#20-1005 \$12³⁵₍₁₋₅₎ \$10⁹⁰₍₆₋₁₁₎ \$9⁸⁰₍₁₂₋₂₃₎ \$8⁸⁰_(24-up)

D. No-Arc High Voltage Acrylic Insulator

- Stops arcing and corona shorts ■ Leaves a tough, water resistant protective coating ■ Fast drying, provides positive insulation against RF high voltage leaks ■ Excellent for protecting electrical/electronic devices and exposed wiring ■ 6 oz. ■ 24 cans per case*

#20-330 \$5⁰⁵₍₁₋₅₎ \$4⁷⁰₍₆₋₁₁₎ \$4²⁵₍₁₂₋₂₃₎ \$3⁸⁰_(24-up)

E. Gold Guard

- Cleans, lubricates, and helps protect computer PCB gold fingers ■ Helps prevent micro thin gold platings from wearing away ■ Removes oxides, dust and other contaminants to insure proper contact ■ Leaves a non-conductive lubricating film that will not dry out under high temperature conditions (up to 200°F) ■ 8 oz. can ■ 24 cans per case*

#20-920 \$6⁴⁰₍₁₋₅₎ \$5⁸⁰₍₆₋₁₁₎ \$5²⁵₍₁₂₋₂₃₎ \$4⁷⁵_(24-up)

F. Kontakt Clean

- A chemically pure cleaning agent which restores electrical continuity to contacts, controls, relays, rheostats and switches ■ Instant cleaning action
- Non-residue formula ■ Evaporates quickly ■ Compatible with most plastics
- Excellent dielectric properties ■ Non-flammable ■ 8 oz. ■ 24 cans per case*

#20-460 \$5⁷⁰₍₁₋₅₎ \$4⁹⁵₍₆₋₁₁₎ \$4⁴⁵₍₁₂₋₂₃₎ \$4⁰⁰_(24-up)

G. 70 PSI

- A powerful "non-contact" cleaner that instantly removes microscopic dust, lint, oxide particles and other dry contaminants from all delicate instruments
- Delivers 70 pounds of pressure ■ Comes complete with three-way control valve for precision application ■ Inert gas is triple filtered for maximum purity ■ Safe for plastics ■ Non-residue formula ■ Non-flammable ■ Moisture-free ■ 14 oz. ■ 24 cans per case*

#20-450 \$9³⁰₍₁₋₅₎ \$8⁷⁰₍₆₋₁₁₎ \$7⁸⁵₍₁₂₋₂₃₎ \$7⁰⁵_(24-up)

*Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.

H. Formula 1,1,1

- The strongest cleaner and degreaser available today ■ Dissolves heavy grease, dirt, activated rosin flux, wax, tar and adhesives ■ Contains a corrosion inhibitor for safe use on reactive metals like aluminum, zinc, and magnesium ■ Non-residue formula ■ Non-conductive and non-flammable
- Will not harm rubber and elastomers ■ 22 oz. can ■ 12 cans per case*

#20-905 \$8⁷⁵₍₁₋₅₎ \$7⁷⁵₍₆₋₁₁₎ \$7⁰⁰₍₁₂₋₂₃₎ \$6³⁰_(24-up)

Chemtronics E-Series™ are second-generation products, developed to allow users to phase-in environmentally acceptable chemicals now. As newer technologies appear, the E-Series product line will be expanded to include all significant advances in environmental engineering.

J. E-Series Ultrajet Kit

- Delivers an ultra-filtered gas at 0 to 120 psi via a surgical grade chrome dispenser ■ High quality valve assembly allows precise control over air flow
- Dispenser comes with a final filtration filter, 3" rigid extension, and a 3' flexible extension ■ Gas is ultra-filtered to less than 0.2 microns and moisture free ■ Non-residue formula ■ Display packaged ■ 12 oz. can ■ 12 cans per case*

#20-925 \$27⁶⁰_(1-5 Kits) \$25⁷⁰_(6-11 Kits) \$23¹⁰_(12-23 Kits) \$20⁸⁰_(24-up kits)

Refill (For use with the E-Series Ultrajet valve only)

#20-930 \$7⁹⁰₍₁₋₅₎ \$7⁰⁰₍₆₋₁₁₎ \$6³⁰₍₁₂₋₂₃₎ \$5⁷⁰_(24-up)

K. TF Solvent™

- A mild cleaner and degreaser for solvent sensitive equipment and precision instruments ■ Superior wetting ability and low surface tension enable TF solvent to penetrate tiny cracks and pores ■ Non-residue formula ■ Filtered to less than 0.2 microns for maximum purity ■ Non-flammable and non-conductive*

16 oz. ■ 24 cans per case

#20-900 \$8⁹⁵₍₁₋₅₎ \$8²⁰₍₆₋₁₁₎ \$7⁴⁰₍₁₂₋₂₃₎ \$6⁷⁰_(24-up)

24 oz. E-Series TF Plus ■ 12 cans per case

#20-1020 \$15²⁰₍₁₋₅₎ \$14¹⁵₍₆₋₁₁₎ \$12⁷⁵₍₁₂₋₂₃₎ \$11⁵⁰_(24-up)

L. Freez-It Antistat

- Now you can track down thermal intermittents by quickly cooling suspected components to -55°C (-65°F) ■ Freez-It also helps locate cold solder joints and hairline cracks in PCBs ■ Will not create an electrostatic charge often created by refrigerant type coolants and friction from aerosol valve emissions
- Dissipates existing static build-up ■ Safe on most plastics ■ Non-flammable*

14 oz. ■ 24 cans per case

#20-915 \$6⁹⁵₍₁₋₅₎ \$6²⁵₍₆₋₁₁₎ \$5⁶⁰₍₁₂₋₂₃₎ \$5⁰⁵_(24-up)

12 oz. E-Series Freez-It ■ 12 cans per case

#20-1010 \$7⁹⁰₍₁₋₅₎ \$7⁰⁰₍₆₋₁₁₎ \$6³⁰₍₁₂₋₂₃₎ \$5⁷⁰_(24-up)

M. Flux-Off

- Quickly removes activated and non-activated rosin flux from PCBs
- Requires no brushing or scrubbing ■ Will not erase component markings
- Non-residue formula ■ Non-flammable and non-conductive*

16 oz. ■ 24 cans per case

#20-910 \$7³⁵₍₁₋₅₎ \$6⁸⁵₍₆₋₁₁₎ \$6²⁰₍₁₂₋₂₃₎ \$5⁶⁰_(24-up)

20 oz. E-Series Flux-Off Plus ■ 12 cans per case

#20-1015 \$9⁵⁰₍₁₋₅₎ \$8⁴⁵₍₆₋₁₁₎ \$7⁶⁰₍₁₂₋₂₃₎ \$6⁸⁵_(24-up)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



Chemgun

- Trigger grip handle that attaches to most aerosol cans
- Gives more control when applying spray adhesives, solvents and paints
- Works with most standard aerosol cans

#21-1575 \$2.95 (ea.)



Micro Bond

- One drop makes a strong, permanent bond on most materials
- 3 gram bottle

#20-1080
\$2.10 (1-5) \$1.95 (6-11) \$1.80 (12-23)



TF Pads

- Pre-moistened pads saturated with TF solvent
- Lint free
- Great for cleaning magnetic tape heads, drive components, relays, PCBs, etc.
- Pad dimensions: 3" x 4"
- 50 pads per package

#20-960
\$17.90 (1-5 pkgs.) \$16.15 (6-11 pkgs.) \$14.50 (12-23 pkgs.)



Mini Foam Swabs

- Made of lint free cellular urethane foam for maximum absorbency
- Compatible with freon based solvents, alcohols and most other cleaning fluids
- 2 3/4" length
- 50 per package

#20-950
\$10.60 (1-5 pkgs.) \$9.55 (6-11 pkgs.) \$8.60 (12-23 pkgs.)



Chemswab

- Plastic swabs with foam tips
- Pre-soaked in alcohol
- Swabs are individually packaged for convenience

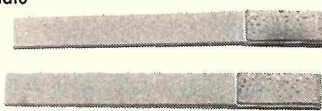
#21-790 \$1.25 (1-9) \$1.00 (10-24) 90¢ (25-49)



Chamois Tips

- Super-soft tips are free of all contaminating agents
- Compatible with TF solvent and isopropyl alcohol
- Flexible polystyrene handle
- 3 1/2" length
- Display packaged
- 15 per package

#20-955
\$9.50 (1-5 pkgs.) \$8.45 (6-11 pkgs.) \$7.60 (12-23 pkgs.)



Double Sided Foam Swabs

- These high quality swabs were designed with the professional technician in mind
- Foam tips are molded
- 6 1/2" long
- Display package
- Ten per package

#20-945
\$5.50 (1-5 pkgs.) \$4.90 (6-11 pkgs.) \$4.45 (12-23 pkgs.)



*Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.



A. TMC Resin Flux Remover

- Removes excess rosin from solder joints
- Good for general solvent type cleaning jobs
- 20 oz.
- 12 cans per case *

#20-250 \$5.85 (1-5) \$5.05 (6-11) \$4.50 (12-23) \$4.05 (24-up)

B. Audio Tape Head Cleaner

- Helps restore and maintain sound fidelity
- Removes dirt and grease
- Perfect for any audio tape recorder
- 2 oz.

#20-240 \$3.00 (1-5) \$2.60 (6-11) \$2.35 (12-23) \$2.10 (24-up)

C. Video Head Cleaner

- Specially formulated for video tape heads
- Cleans completely without residue
- Safe for rubbers, metals and painted surfaces
- 8 oz.
- 12 cans per case *

#20-270 \$3.85 (1-5) \$3.25 (6-11) \$2.95 (12-23) \$2.65 (24-up)

D. Spray Adhesive

- Bonds most plastics, metals and rubbers
- 16 oz.
- 12 cans per case *

#20-865 \$4.50 (1-5) \$3.95 (6-11) \$3.55 (12-23) \$3.20 (24-up)

E. All Purpose Adhesive

- An all purpose contact cement good for bonding glass, rubber, paper, leather, plastic, concrete, stone, metals, and fabrics
- Brush included
- 3 oz. *

#20-260 \$3.20 (1-5) \$2.80 (6-11) \$2.50 (12-23) \$2.25 (24-up)

F. Super Glue

- One drop makes a strong, permanent bond on most materials

#20-350 \$1.70 (1-5) \$1.40 (6-11) \$1.25 (12-23) \$1.15 (24-up)

G. Rubber Drive Cleaner

- Cleans and revitalizes rubber
- Removes glazing effect on old belts and idler wheels
- 1 oz.

#20-230 \$2.35 (1-5) \$1.95 (6-11) \$1.75 (12-23) \$1.60 (24-up)

H. Silicone Heat Sink Compound

- Used for heat transfer from semiconductor devices to mounting points
- White
- Will not dry or harden
- 1 oz. tube

#20-300 \$3.20 (1-5) \$2.75 (6-11) \$2.50 (12-23) \$2.25 (24-up)

J. Clear Coat Spray

- Helps protect against shorts where high voltage is present
- Non-conductive
- Will not affect resistance values
- Eliminates high voltage corona
- Prevents rusting and pitting
- Good to approximately 450°F
- 12 oz.
- 12 cans per case *

#20-860 \$3.75 (1-5) \$3.30 (6-11) \$2.95 (12-23) \$2.65 (24-up)

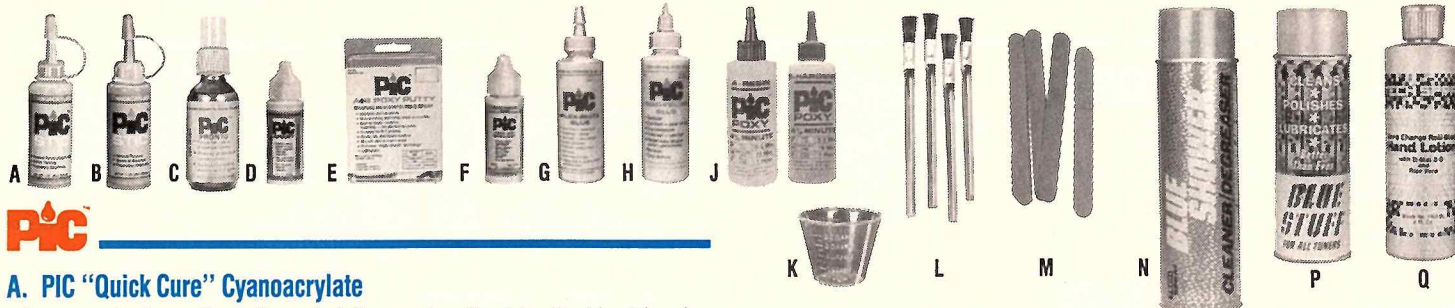
K. Plas-T-Pair

- Excellent for fixing broken plastic knobs, plastic cabinets, etc.
- This two part kit can be used as an extremely strong fast setting, water proof glue; which will bond almost any material
- No clamps or pressure is needed when bonding with Plas-T-Pair
- Kit contains: 90cc Plas-T-Pair liquid, 3 oz. Plas-T-Pair powder and precision eyedropper

#20-1090 \$7.85 (1-5) \$7.00 (6-11) \$6.30 (12-23) \$5.70 (24-up)



CHEMICALS



A. PIC "Quick Cure" Cyanoacrylate

- Deep penetrating action ■ Cures in 2-3 seconds ■ Great for "tacking" bonds
- Use on closely matching surfaces ■ 1/2 fl. oz.

#20-780 \$370 (1-5) \$320 (6-11) \$290 (12-23) \$260 (24-up)

B. PIC "Best Choice" Cyanoacrylate

- Best for general use ■ Medium cure rate of 30 seconds ■ Medium gap filling
- Fillet forming type ■ 1/2 fl. oz.

#20-785 \$370 (1-5) \$320 (6-11) \$290 (12-23) \$260 (24-up)

C. "Pronto" Accelerator

- Forces cyanoacrylate glues to cure faster ■ Enhances gap filling ability up to 1/4"
- Provides greater load carrying capability ■ 2 fl. oz. pump

#20-995 \$530 (1-5) \$470 (6-11) \$425 (12-23) \$390 (24-up)

D. PIC "Apart"

- Removes cured cyanoacrylates from hands, clothing, tools, etc.
- Facilitates separation of bonded assemblies ■ Also removes felt tip pen marks, typist correction fluid, fingernail polish, price tag residues and more
- 1 fl. oz.

#20-790 \$430 (1-5) \$375 (6-11) \$335 (12-23) \$300 (24-up)

E. PIC "A & B Poxy" Putty

- Two part epoxy putty ■ Combine parts A and B and knead to make shaping and contouring epoxy ■ Non-shrinking; won't chip, crack or crumble
- Sandable and carveable ■ Bonds, fills, and repairs furniture ■ Stain can be mixed with putty to match wood ■ Cures underwater

#20-810 \$490 (1-5) \$425 (6-11) \$385 (12-23) \$345 (24-up)

F. PIC "Vibra-Jam" Sealant

- Helps prevent parts from vibrating loose ■ Repairs stripped-out holes in plastics and metals ■ Can be used on screw heads by warranty repair centers to detect unauthorized service or tampering ■ 1 fl. oz.

#20-800 \$745 (1-5) \$663 (6-11) \$597 (12-23) \$537 (24-up)

G. PIC "Flex White" Glue

- Dries clear ■ Stays flexible ■ Bonds porous and non-porous materials
- Super thick—super tacky ■ Non-toxic ■ 4 fl. oz.

#20-825 \$270 (1-5) \$225 (6-11) \$200 (12-23) \$180 (24-up)

H. PIC "Rigid Yellow" Glue

- Professional wood glue ■ Dries hard ■ Resists water, lacquer, varnish, and solvents ■ High solids content for "quick grabbing" action ■ Non-toxic
- 4 fl. oz.

#20-830 \$270 (1-5) \$225 (6-11) \$200 (12-23) \$180 (24-up)

J. PIC "Poxy" 4 1/2 Minute Epoxy Liquid

- Fast cure epoxy ■ 3-5 minute pot life ■ Assembled parts can be handled in as little as 15 minutes ■ Full cure is reached in one hour ■ Two part epoxy
- 9 oz. combined weight

#20-835 \$1000 (1-5) \$900 (6-11) \$810 (12-23) \$730 (24-up)

K. PIC Mixing-Measuring Cups

- Fully graduated in tablespoons, milliliters, drams and ounces ■ Disposable, polypropylene ■ Excellent for mixing epoxies ■ Also good for holding small parts during disassembly ■ 1 fl. oz. capacity ■ 50 per package

#20-775 \$305 (1-5 pkgs.) \$270 (6-11 pkgs.) \$240 (12-23 pkgs.) \$215 (24 pkgs.-up)

L. PIC "Poxy" Brushes

- Use to spread glue, epoxy and more ■ Excellent for cleaning circuit boards when used with solvent ■ Bristles are crimped so solvents won't cause brush to deteriorate ■ 12 per package

#20-815 \$375 (1-5 pkgs.) \$310 (6-11 pkgs.) \$280 (12-23 pkgs.) \$250 (24 pkgs.-up)

M. PIC Mixing-Hobby Sticks

- Extra wide wooden sticks ■ Use to mix epoxy, stir paint, etc.
- 75 per package

#20-820 \$360 (1-5 pkgs.) \$315 (6-11 pkgs.) \$284 (12-23 pkgs.) \$255 (24 pkgs.-up)

TECH SPRAY

N. Blue Shower

- Cleans particulate, ionic and non-ionic debris and contaminants from all electronic components and circuitry ■ Penetrates minute cracks and crevices, lifting out grease and dirt ■ Safe on plastics and materials used in electronic circuitry (may not be safe on plastic cabinet trim) ■ Use on tuners, potentiometers, solenoids, tube sockets and more ■ Recommend using Blue Stuff after cleaning with Blue Shower ■ 24 oz. *

#20-845 \$1075 (1-5) \$995 (6-11) \$895 (12-23) \$805 (24-up)

P. Blue Stuff

- Formulated with MINISCRUBBERS™ tuner contact polishers; that continue to polish even after months of use ■ MINISCRUBBERS™ are dispersed throughout a special super-smooth tuner lubricant that won't create tuner drag or contact wear ■ Safe on all plastics ■ 8 oz. *

#20-850 \$675 (1-5) \$605 (6-11) \$545 (12-23) \$490 (24-up)

Q. Zero Charge Anti-Static Hand Lotion™

- Helps dissipate static charge from operator's hands ■ Formulated with D-Stat, Z-D and aloe vera ■ Does not contain lanolin, oils, greases or silicon
- Fast absorption, penetrates deeply ■ .4 sec. electrostatic decay time
- Squeeze bottle ■ 8 oz.

#20-990 \$470 (1-5) \$410 (6-11) \$370 (12-23) \$330 (24-up)



MCM carries
the name brands
you trust

*Note: Due to the chemical content, this product
can only be shipped by UPS Ground Service.



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IN CANADA CALL TOLL FREE
1-800-824-9491



A. LPS Electro Contact Cleaner

■ Cleans electrical/electronic components, including PC boards, relays and switches ■ Leaves no residue ■ Excellent for computers and digital equipment ■ Won't attract dust or dirt ■ Safe on rubber, paint, plastic and fabric ■ Anti-static ■ 16 oz. ■ 12 cans per case *

#20-435.....\$13¹⁰₍₁₋₅₎.....\$12²⁰₍₆₋₁₁₎.....\$10⁹⁵₍₁₂₋₂₃₎.....\$9⁸⁵_(24-up)

B. LPS 1 Greaseless Lubricant

■ Light-duty lubricant ■ Water displacer — dries out wet electrical/electronic components ■ Helps restore water soaked electric motors and components ■ Dries and protects coils, relays, switches, connectors and wire terminals ■ Safe on rubber, paint, plastic and fabric ■ 11 oz. ■ 12 cans per case *

#20-420.....\$6²⁵₍₁₋₅₎.....\$5⁸⁰₍₆₋₁₁₎.....\$5²⁰₍₁₂₋₂₃₎.....\$4⁷⁰_(24-up)

C. LPS 2 General Purpose Lubricant

■ Leaves light oily coating ■ Helps protect most metals from corrosion for one year or more ■ Lubricates and helps protect outdoor electrical/electronic equipment, and parts in storage ■ Reduces wear caused by friction and corrosion ■ Safe on rubber, paint, plastic and fabric ■ 11 oz. ■ 12 cans per case *

#20-425.....\$5⁹⁰₍₁₋₅₎.....\$5⁵⁰₍₆₋₁₁₎.....\$4⁹⁵₍₁₂₋₂₃₎.....\$4⁴⁵_(24-up)

D. LPS 3 Heavy Duty Rust Inhibitor

■ Seals out moisture and corrosive elements from electrical panel boxes and housings ■ Forms thin waxy coating ■ Helps protect in severe conditions indoor and outdoor for up to two years ■ Excellent anti-seize compound ■ Safe on rubber, paint, plastic and fabric ■ 11 oz. ■ 12 cans per case *

#20-430.....\$6⁶⁰₍₁₋₅₎.....\$5⁸⁵₍₆₋₁₁₎.....\$5³⁰₍₁₂₋₂₃₎.....\$4⁷⁵_(24-up)

E. LPS Instant Super Cleaner/Degreaser

■ Quickly removes oil, grease and dirt build-up from clothing, fabric and metal parts ■ Evaporates completely and leaves no residue ■ Cleans and degreases electric motors and generators while in operation ■ Non-flammable ■ 20 oz. ■ 12 cans per case *

#20-440.....\$6²⁰₍₁₋₅₎.....\$5⁸⁰₍₆₋₁₁₎.....\$5²⁰₍₁₂₋₂₃₎.....\$4⁷⁰_(24-up)

F. LPS Audio/Video Cleaner

■ Professionally formulated to remove dirt, dust and oxide from tape heads and other sensitive electronic parts ■ Penetrates for complete cleaning and degreasing ■ Leaves no residue ■ Safe on rubber, plastics and tapes ■ 6 oz. ■ 12 cans per case *

#20-470.....\$5⁷⁰₍₁₋₅₎.....\$5⁵⁰₍₆₋₁₁₎.....\$4⁵⁵₍₁₂₋₂₃₎.....\$4¹⁰_(24-up)

*Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.



G. LPS Silicone Lubricant

■ High grade silicone lubricant for use on almost any surface ■ Forms an effective silicone layer to lubricate and protect rubber, plastic and metal parts ■ Food grade, non-staining, colorless and odorless ■ 13 oz. ■ 12 cans per case *

#20-480.....\$5⁸⁵₍₁₋₅₎.....\$5²⁰₍₆₋₁₁₎.....\$4⁶⁵₍₁₂₋₂₃₎.....\$4²⁰_(24-up)

H. LPS Hand Cleaner

■ Hand cleaner combines high quality cosmetic ingredients with heavy duty cleaners that combat dermatitis and remove stubborn soils from hands ■ Use with or without water ■ Quickly removes grease, asphalt, adhesive, printers ink, oil, paint and more ■ Fortified with jojoba oil and bacteriostats ■ 14 oz. can

#20-495 With Pumice.....\$3⁹⁰₍₁₋₅₎.....\$3⁴⁰₍₆₋₁₁₎.....\$3⁸⁵₍₁₂₋₂₃₎.....\$2⁷⁵_(24-up)

#20-505 Without Pumice.....\$4⁴⁰₍₁₋₅₎.....\$3⁸⁵₍₆₋₁₁₎.....\$3⁴⁵₍₁₂₋₂₃₎.....\$3¹⁰_(24-up)

J. Staticide Anti-Static Spray

■ Formulated especially for static sensitive computer and electronic user environments ■ Use on floors, carpeting, cabinetry, work surfaces, CRT screens, paper, glass, fabrics, plastics and other materials ■ Non-flammable, clear, and will not stain or discolor fabrics ■ Reduces dust attraction ■ Biodegradable ■ 16 oz.

#20-485.....\$5⁹⁰₍₁₋₅₎.....\$5¹⁵₍₆₋₁₁₎.....\$4⁶⁵₍₁₂₋₂₃₎.....\$4¹⁵_(24-up)

K. DOW CORNING® Silicone Rubber Sealant

■ Dow Corning 684 100% pure silicone ■ Easier to use than high voltage putty ■ Excellent weatherproofing for antenna installations, etc. ■ Flexible, won't crack or shrink ■ Use for sealing connections on triplers, flybacks, etc. ■ 3 oz.

#20-280.....\$4¹⁵₍₁₋₅₎.....\$3⁶⁵₍₆₋₁₁₎.....\$3²⁵₍₁₂₋₂₃₎.....\$2⁹⁵_(24-up)

L. DOW CORNING® Damping Fluid

■ Used in turntable cueing mechanisms ■ Long lasting ■ The same formula used by Dual, Technics, and many others ■ 1/4 oz.

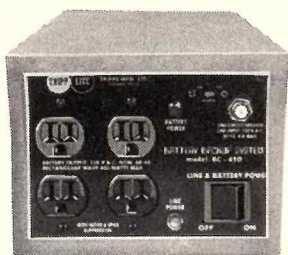
#20-320.....\$2⁹⁰₍₁₋₅₎.....\$2⁵⁰₍₆₋₁₁₎.....\$2²⁰₍₁₂₋₂₃₎.....\$1⁹⁵_(24-up)

Due to new government regulations for aerosol products, chemical pricing is subject to change. Please verify pricing with your MCM Sales Representative.





TRIPP LITE POWER CENTERS



TRIPP LITE

Power Back-up and Suppressor

■ Keeps important equipment on-line during blackouts and protects against spikes and noise ■ Designed to provide back-up power for PCs and other computer equipment ■ Supplies emergency power within 8 milliseconds (less than 1/2 cycle) of a blackout or brownout ■ Alarm warns you when emergency power is required ■ Includes grounded AC outlets for up to four appliances ■ Supplies 80W of power for 120 minutes, 240W for 30 minutes, or 400W for 10 minutes ■ Unit shuts off when its power is drained to protect batteries from damage ■ Built-in circuit breaker protects unit from excessive current loads ■ For equipment totaling 450W or less

#28-0760 \$499⁹⁵ (ea.)

TRIPP LITE

ISOBAR AC Line Filter-Spike/Noise Suppressors

■ Helps protect computers, cash registers, stereos and other sensitive electronic equipment ■ Filter isolation eliminates the possibility of interference between the different devices plugged into each ISOBAR ■ "Cascade design" spike and noise suppression circuitry allow you to choose the level of protection you need

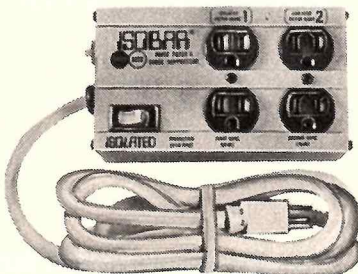
Specifications: ■ Spike protection: Starts suppressing spikes at 140VAC RMS ■ Transient response time: 5nsec ■ High frequency noise suppression: >20dB at 50KHz, >40dB at 150KHz, >80dB at 1MHz, >30dB from 6MHz-1000MHz

Four Outlets



■ Two filter banks ■ 6' grounded power cord ■ 1875W maximum load; 15A per socket ■ 13,000A peak current capacity ■ 15A circuit breaker

#28-0270 \$79⁹⁵ (ea.)

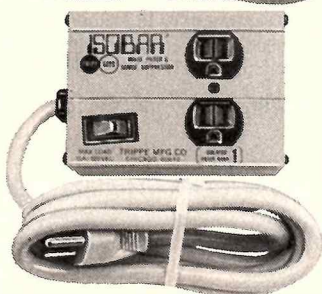


Two Outlets



■ One filter bank ■ 6' grounded power cord ■ 1875W maximum load; 15A per socket ■ 6500A peak current capacity

#28-0265 \$59⁹⁵ (ea.)

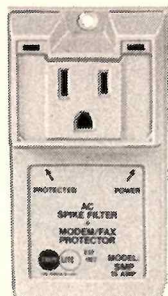


TRIPP LITE

Super Fax Filter

■ Single outlet AC spike suppressor ■ Built-in RJ-11 phone line protector plugs directly into AC outlet ■ **Telephone line protection:** ■ Clamping voltage 200V peak ■ Response time is less than 5nsec ■ Energy handling up to 90 joules ■ RJ-11 modular input and output receptacles ■ 12' cord included ■ **AC Protection:** ■ Handles 70 joules spikes at current levels up to 6500A ■ Clamping voltage of 150VAC RMS ■ Clamping response time of 5 seconds ■ Load handling: 1875W maximum at 15A ■ Dimensions: 3 3/4" (H) x 2" (W) x 1 1/2" (D)

#28-1170 \$49⁹⁵ (ea.)

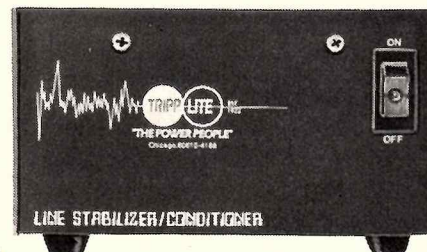


TRIPP LITE

Line Stabilizer/Conditioner

■ Provides automatic adjustment of line voltage at AC outlet ■ Compensates for both high or low power line voltage conditions ■ Contains Tripp Lite's exclusive "Isobar" voltage spike and noise suppression networks ■ Output voltage is maintained at 120V ± 5% over an input range of 96-138V RMS ■ Response time is within three cycles maximum (1/2 cycle typical) ■ 1200W

#28-0280 \$249⁰⁰ (ea.)



TRIPP LITE

Line Stabilizer/Conditioner

■ Adjusts line voltage to compensate for low power line voltage conditions ■ Three-way spike and noise suppression ■ Output voltage is maintained at 120V ± 5% over an input range of 89-127V RMS ■ Maximum load 600W

#28-1175 \$129⁰⁰ (ea.)

TRIPP LITE

Spike and Noise Suppressors

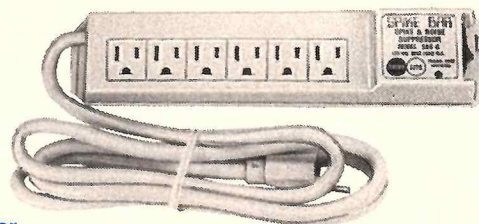
■ Inexpensive protection for your sensitive electronic equipment ■ Suppress up to 140 joule spikes at current levels up to 6500A ■ Clamping response time within nanoseconds ■ Six outlets in attractive beige case ■ Rated for 15A loads



Spike Blok

■ Indicator light lets you know your equipment is protected ■ Plugs directly into wall outlet and attaches securely by means of a center screw

#28-0255 \$39⁹⁵ (ea.)



Spike Bar

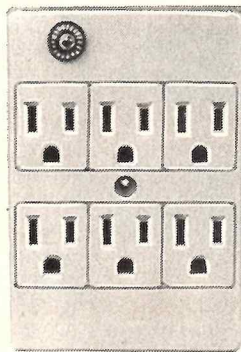
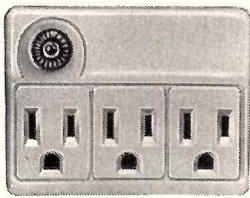
■ Outlet strip with 6' grounded power cord ■ Illuminated rocker switch ■ 15A circuit breaker

#28-0260 \$49⁹⁵ (ea.)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



Listed Surge Suppressors

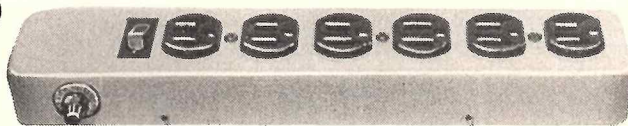
■ Helps protect computers, stereos, and other electronic equipment
■ Suppresses up to 40 joule surges at current levels up to 4500A ■ Clamping response time: Less than 5nsec ■ Maximum voltage surge: 6000V ■ Electrical rating: 15A; 125VAC; 1875W ■ Full 3 mode surge suppression with EMI/RFI filter

Three Outlet

#28-0300 \$10⁹⁵₍₁₋₄₎ \$9⁹⁵_(5-up)

Six Outlet

#28-0305 \$14⁹⁵₍₁₋₄₎ \$13⁹⁵_(5-up)



TENMA™ Surge Protector Outlet Strip

■ Six switched outlets ■ Illuminating rocker switch ■ Circuit breaker and MOV protection ■ Protects sensitive digital circuits ■ 15A ■ 6', 14 gauge, 3 conductor, grounded power cord

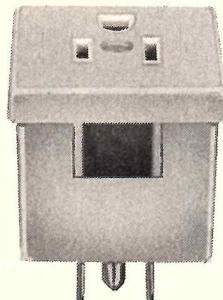
Specifications: ■ Maximum permissible voltage: 225VDC, 175VAC RMS
■ Maximum surge current: 2500A two times or 4500A one time ■ Varistor voltage: 270V (1mA)

#83-255 \$14⁹⁵_(ea.)

Solid State Protector

■ This is a compact, rugged, reliable and extremely efficient device ■ At normal line voltages it is completely passive, but when a potentially destructive transient voltage strikes, it responds within one nanosecond ■ The exclusive WINDOWCATOR feature shows if unit is protecting
Specifications: ■ Clamping voltage: 240V ■ Peak current: 1600A ■ Energy absorption: 45 joules ■ Response time: less than 1nsec

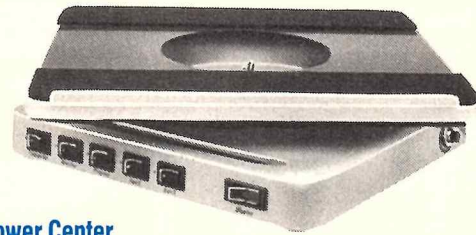
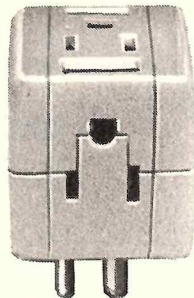
#83-520 \$8⁵⁰₍₁₋₉₎ \$7⁹⁵_(10-up)



TENMA™ Surge Suppressor

■ Three outlets ■ Line to neutral protection mode ■ Helps protect electronic equipment from voltage transients ■ 125V, 15A
Varistor Specifications: ■ Maximum permissible voltage: 225VDC, 175VAC RMS ■ Maximum surge current: 2500A two times or 4500A one time

#83-755 \$6⁹⁵₍₁₋₉₎ \$5⁹⁵_(10-up)



Swivel Power Center

■ For 9"-12" monitors ■ Swivels 360° ■ Tilts 25° up and down ■ Built-in EMI filter and surge suppression ■ Power receptacles for computer, monitor printer, and two auxiliary receptacles ■ All peripherals are switched on power center ■ Illuminated master power switch

#83-0120 \$49⁸⁰₍₁₋₄₎ \$47⁸⁰_(5-up)

Brooks AC Energy Centers



Five Outlets

■ 5' cord ■ All components UL listed

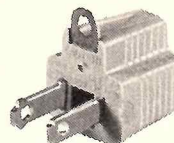
#28-398 \$13⁵⁰₍₁₋₉₎ \$11⁹⁵_(10-up)



Nine Outlets

■ 5' cord ■ All components UL listed

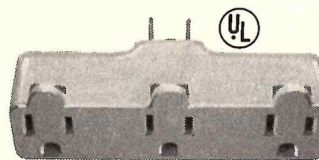
#28-400 \$16⁹⁵₍₁₋₉₎ \$15⁹⁰_(10-up)



Grounding Adaptor

■ Converts 3 conductor grounded plugs for use in 2 conductor ungrounded outlets

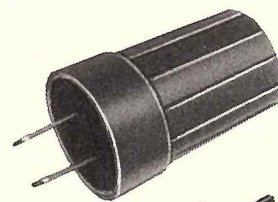
#27-310 .. \$1¹¹₍₁₋₉₎ .. 91¢₍₁₀₋₄₉₎ .. 72¢₍₅₀₋₉₉₎



Triple Tap

■ Allows three devices to share one AC outlet ■ 3 prong grounded

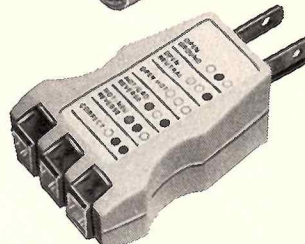
#28-0800 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)



Line Cord Noise Filter

■ Reduces noise and interference transferred by electrical lines ■ Plug any 110V radio, TV or stereo into filter, then plug filter into wall outlet

#28-015 \$1⁵⁵₍₁₋₉₎ \$1⁴⁵₍₁₀₋₄₉₎ \$1²⁵_(50-up)



Receptacle Analyzer

■ Quick and easy way to check standard 3 prong receptacles ■ Neon lights to indicate wiring connections ■ Color coded reference chart

#21-1145 .. \$4⁹⁵₍₁₋₉₎ .. \$4²⁵₍₁₀₋₂₄₎ .. \$3⁸⁵₍₂₅₋₄₉₎



COMPUTER EQUIPMENT

Solder Type Series "D" Connectors

■ Sorry—no mixing of types for quantity pricing

Type	Order #	Price		
		(1-9)	(10-49)	(50-up)
9 Pin Plug	83-210	\$1.15	\$.90	\$.79
9 Pin Socket	83-215	.91	.71	.62
9 Pin Hood*	83-220	1.20	.94	.82
15 Pin Plug	83-225	1.07	.83	.73
15 Pin Socket	83-230	1.05	.85	.70
15 Pin Hood*	83-235	1.25	1.00	.80
25 Pin Plug	83-240	1.45	1.13	.99
25 Pin Socket	83-245	1.40	1.05	.94
25 Pin Hood*	83-250	.99	.77	.62
37 Pin Plug	83-905	2.50	1.95	1.55
37 Pin Socket	83-900	2.75	2.15	1.70
37 Pin Hood*	83-995	1.50	1.25	1.00
50 Pin Plug	83-910	4.00	3.40	—
50 Pin Socket	83-915	4.70	3.95	—
50 Pin Hood*	83-990	1.95	1.80	1.65

*All hardware is furnished with hood.

Solder Type PC Mount Series "D" Connectors

■ Sorry—no mixing of types for quantity pricing

Type	Order #	Price		
		(1-9)	(10-49)	(50-up)
9 Pin Plug	83-0225	\$1.10	\$1.00	\$.90
9 Pin Socket	83-0230	1.10	1.00	.90
15 Pin Plug	83-0235	1.45	1.35	1.25
15 Pin Socket	83-0240	1.45	1.35	1.25
25 Pin Plug	83-0245	1.55	1.45	1.35
25 Pin Socket	83-0250	1.55	1.45	1.35



A



B



C

Crimp Type Series "D" Connectors

■ "D" sub connectors with crimp-on connections ■ Use with #22-795 crimp tool ■ Crimp pins included ■ 15 pin version is high density ■ Sorry—no mixing of types for quantity pricing

Fig.	Type	Order #	# of Pins	Uses Hood #	Price		
					(1-9)	(10-49)	(50-up)
A	Male	83-0445	9	83-220	\$1.35	\$1.05	\$.85
A	Female	83-0450	9	83-220	1.50	1.20	.95
B	Male	83-0295	15HD	83-220	3.05	2.55	2.15
B	Female	83-0300	15HD	83-220	3.45	2.85	2.40
C	Male	83-242	25	83-250	2.25	1.75	1.50
C	Female	83-247	25	83-250	2.40	1.90	1.65

Insertion/Extraction Tool

■ Tool for inserting and extracting crimp type "D" connectors ■ Not for solder type connectors ■ Available for standard and high density connectors

Standard
#83-0565

High Density
#83-0570



\$4⁹⁵
(1-9)

\$4⁴⁵
(10-up)

"D" Sub Wallplates

■ High quality stainless steel construction ■ To be used with 25 pin connectors (not included) ■ Available in both single or duplex type ■ Mounting screws included ■ Sorry—no mixing of types for quantity pricing

Type	Order #	Price		
		(1-9)	(10-49)	(50-up)
Single	83-660	\$2.35	\$1.95	\$1.70
Duplex	83-665	2.25	1.85	1.55



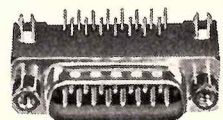
Plug



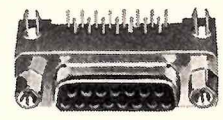
Socket



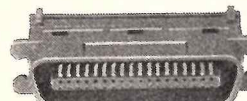
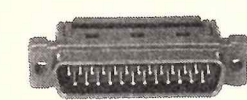
*Hood



Plug



Socket



IDC Connectors

■ Insulation displacing connectors (IDC) ■ No stripping or soldering ■ Gold plated connectors ■ For use with ribbon cable ■ Available in "D" sub (25 pin), centronics (36 and 50 pin), edge card and header connectors ■ Header connectors have .100" centers ■ With strain relief ■ Sorry—no mixing of types for quantity pricing

Type	Order #	Price	
		(1-9)	(10-49)
25 Pin Male D Sub	83-970	\$3.85	\$3.30
25 Pin Female D Sub	83-960	3.85	3.30
36 Pin Male D Sub	83-955	4.20	3.45
36 Pin Female D Sub	83-965	3.75	3.20
50 Pin Male D Sub	83-0690	6.40	5.80
50 Pin Female D Sub	83-0695	6.40	5.80
20 Pin Cardedge	NEW 83-0700	.80	.70
34 Pin Cardedge	NEW 83-0705	.85	.75
40 Pin Cardedge	NEW 83-0710	1.55	1.45
50 Pin Cardedge	NEW 83-0715	1.80	1.60
20 Pin Header	NEW 83-0720	.80	.70
34 Pin Header	NEW 83-0725	1.00	.90
40 Pin Header	NEW 83-0730	1.50	1.40
50 Pin Header	NEW 83-0735	1.55	1.45

IDC Crimp Tool



■ For crimping insulation displacement connectors ■ Crimping distance from 6mm-27.5mm ■ Cushioned handles ■ All steel construction

#22-1025 \$19⁹⁵
(ea.)

Centronics Type Connectors

■ Centronics type ■ Solder type terminals ■ Gold plated contacts ■ Sorry—no mixing of types for quantity pricing

Type	Order #	Price	
		(1-9)	(10-up)
24 Pin Male	83-0105	\$4.05	\$3.30
24 Pin Female	83-0110	3.80	3.20
36 Pin Male	83-310	2.70	2.25
36 Pin Female	83-690	3.15	2.60
36 Pin Male Right Angle (Right Angle at Pin #18)	83-0530	3.40	2.80
36 Pin Male Right Angle (Right Angle at Pin #1)	83-0525	3.55	2.90
50 Pin Male	83-780	4.00	3.45
50 Pin Female	83-0065	4.60	3.90

Thumbscrew Kit

■ Use when making new cables or to retrofit old cables ■ Allows user to make connection quickly without the aid of tools ■ Four piece kit

#83-880 75¢
(1-9 kits) 60¢
(10 kits-up)

RS-232 "D" Connector Hardware Kit

■ Kit contains: All the hardware needed for one connector (two #4 screws, two #4 washers, two nut and screw sets and cable clip with screw)

#83-735
39¢
(1-9 kits) 33¢
(10-99 kits) 29¢
(100 kits-up)

Cable Labels



■ These cable labels help user identify cable's make-up, length, purpose, source, destination and connection ■ Made from tough Dupont Tyvek® for long life ■ Five per package

#83-0750 \$7⁹⁵
(1-9 pkgs.) \$6⁹⁵
(10 pkgs.-up)

SEE PAGE 85 FOR COMPUTER CABLE



Joystick Jack

- Replacement 9 pin jack for Atari
- Replaces joystick paddle PC mount jack in 2600, 2600A game systems
- Atari C010448

#27-120 \$1⁰⁸₍₁₋₉₎ 89¢_(10-up)

13 Conductor Atari Type Plug Kit

- Contains plug and hardware

#83-360
\$2⁰⁵_(1-9 kits) \$1⁹⁰_(10-49 kits) \$1⁵⁰_(50 kits-up)

13 Pin PC Board Connector

- Replaces damaged connectors in Atari 400 and 800 computers

#83-140 \$2⁴⁵₍₁₋₉₎ \$1⁹⁰₍₁₀₋₄₉₎ \$1⁵⁰_(50-up)

16 Pin Dip Plug

- IDC type ■ Gold plated terminals ■ To be used with ribbon cable

#83-105
80¢₍₁₋₉₎ 75¢₍₁₀₋₄₉₎ 60¢_(50-up)

Dual Joystick Adaptor

- Accepts two joysticks on one input
- Can be used on any 9 pin system, including Atari 2600

#83-390 \$4⁶⁰₍₁₋₉₎ \$3⁹⁵_(10-up)

Video Game Cable

- 9 conductor cable for Atari ■ Atari type plug to color coded wire

#83-385 \$2⁷⁵₍₁₋₉₎ \$2²⁵₍₁₀₋₄₉₎ \$1⁹⁵_(50-up)

Joystick Extension Cord 9 Pin

- 9 pin Atari type extension cord
- Available in 6' and 12' lengths

#83-375 (6') \$4²⁵₍₁₋₉₎ \$3⁶⁵_(10-up)
#83-380 (12') \$5³⁰₍₁₋₉₎ \$4⁵⁰_(10-up)

Replacement Nintendo Joystick Cable

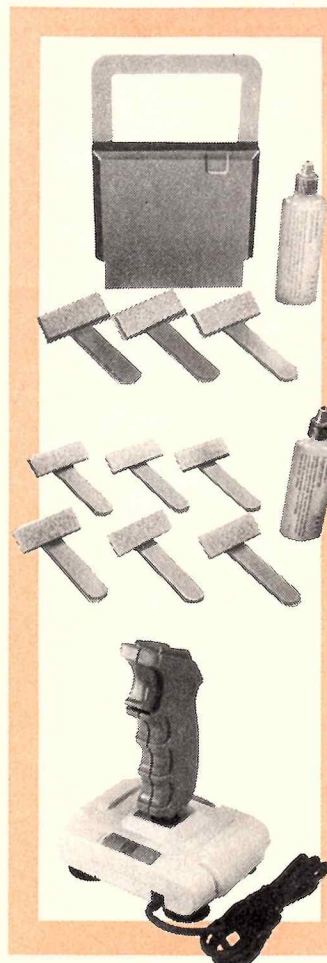
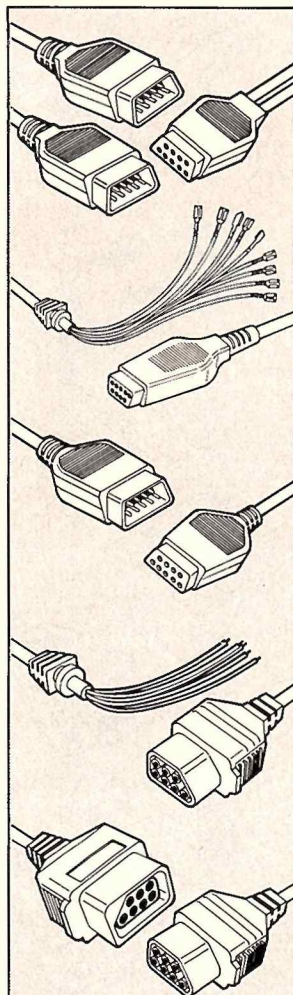
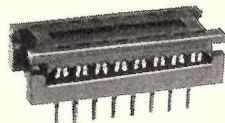
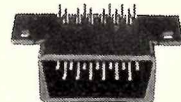
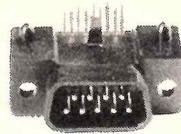
- Replaces broken cables for Nintendo compatible joysticks ■ Five color coded stripped and tinned wires to a Nintendo plug ■ Molded strain relief ■ 4' length

#83-0320 \$3⁵⁵₍₁₋₉₎ \$2⁹⁰₍₁₀₋₄₉₎ \$2⁴⁵_(50-up)

Nintendo Type Joystick Extension Cable

- Extends length of Nintendo joystick cables by 6' ■ 7 pin plug to 7 pin jack

#83-0325 \$4⁷⁰₍₁₋₉₎ \$3⁹⁵_(10-up)



Nintendo System and Cartridge Cleaner Kit

A dirty cartridge or control system can cause problems such as power flashes, blank screens and scrambled pictures. This cleaning kit can restore both to like new condition.

- Cleans cartridges and system control unit ■ Includes system cleaner, three cleaning swabs and cleaning solutions

#80-395 \$9⁹⁹_(kit)

Nintendo and Sega Cartridge Cleaner

- Cleans Nintendo and Sega game cartridges ■ Includes six cleaning swabs and one container of cleaning solution

#80-400 \$7⁹⁹_(ea.)

Nintendo Compatible Joystick

- Compatible with Nintendo Entertainment System ■ Six positive response micro switches ■ Trigger-like primary fire button ■ Thumb-activated secondary fire button ■ Contoured pistol grip ■ Select/start switch ■ Auto-fire switch ■ Four stabilizing suction cups

#83-0280 \$12⁹⁵_(ea.)



Deluxe Joystick for IBM and Apple

- Works with IBM PC/XT and Apple IIe/IIc ■ Two positive response fire buttons ■ Auto-fire switch ■ X and Y axis trim control and auto-centering ■ Uses linear potentiometers for smooth response ■ Four stabilizing suction cups ■ Includes connectors for both IBM and Apple computers

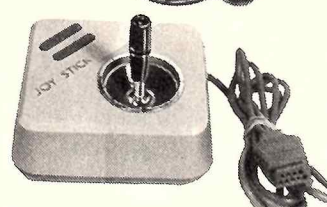
#83-0540 \$24⁴⁰₍₁₋₄₎ \$22⁷⁰_(5-up)



Pistol Grip Joystick

- To be used with Atari, Commodore and other VCS compatible systems ■ Three firing buttons ■ 4 1/2' cord with 9 pin plug

#83-765 \$8⁴⁰₍₁₋₉₎ \$7²⁰_(10-up)



Deluxe Joystick for Atari and Commodore

- For use with Atari, Commodore and other VCS compatible systems ■ Two firing buttons ■ 5 1/2' cord with 9 pin plug

#83-825 \$14³⁵₍₁₋₉₎ \$12⁹⁵_(10-up)



COMPUTER EQUIPMENT

Atari Type Cables

Atari Type Cable Assembly

- 13 pin connectors at both ends
- Designed to interface Atari peripherals such as printers, disk drives, etc. ■ 6' length

#83-365 \$6⁹⁵₍₁₋₉₎ \$5⁹⁰_(10-up)

15 Pin Atari Type Extension Cord

- Standard 15 pin extension cord for Atari 5200 game ■ Special locking "D" subminiature type ■ 6' length

#83-350 \$7⁰⁵₍₁₋₉₎ \$5⁹⁵_(10-up)

Atari Type RF Cable Assembly

- Perfect replacement for worn Atari 2600 game to TV cables ■ RCA plugs on each end ■ Replaces Atari A003647 ■ 12' length

#83-090... \$2⁸⁵₍₁₋₉₎... \$2³⁵₍₁₀₋₄₉₎... \$2⁰⁰_(50-up)

Apple Type Cables

Macintosh Plus to Image Writer II Type Cable

- Allows use of Image Writer II printer with Macintosh Plus, Macintosh II and Macintosh SE computers ■ 6' length

#83-0285 \$6⁶⁰₍₁₋₉₎ \$5⁷⁰_(10-up)

8 Pin Mini DIN Cable

- For use between Macintosh Plus and the 8 pin mini DIN port switches
- #83-0070, #83-0145 ■ 8 pin mini DIN cable in male to male configuration
- All pins wired straight through
- 6' length

#83-0260 \$6⁸⁰₍₁₋₉₎ \$5⁸⁰_(10-up)

Macintosh Type Cable

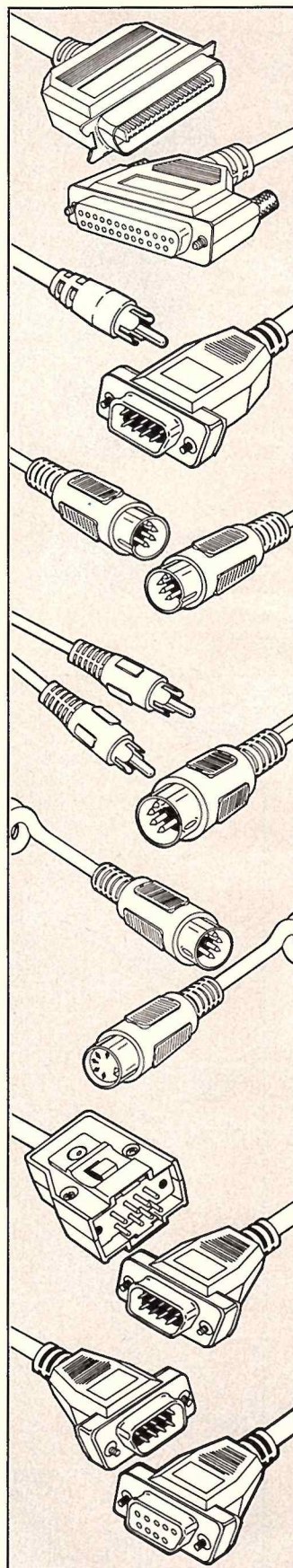
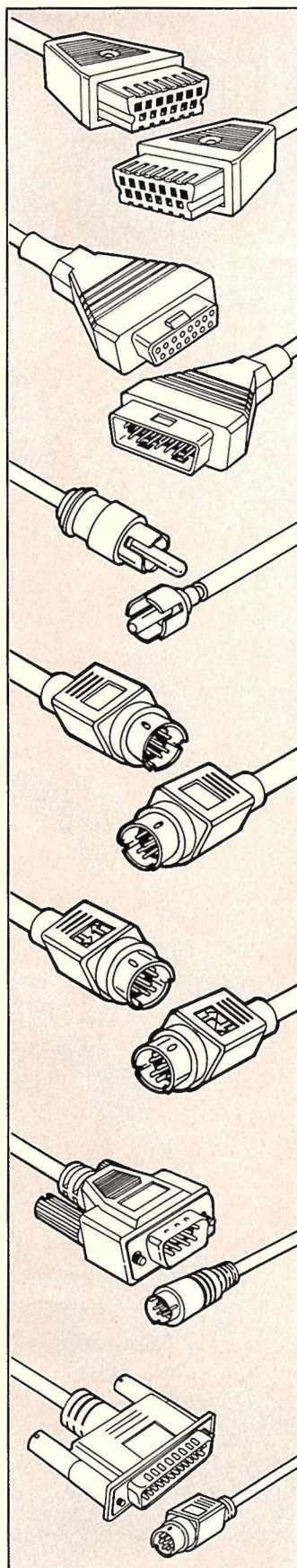
- Designed to interface Macintosh with Apple's Imagewriter II and Apple modems ■ DB-9 to 8 pin subminiature DIN plug ■ Replaces Apple cable M0185 ■ 8' length

#83-845 \$8²⁵₍₁₋₉₎ \$7¹⁰_(10-up)

Macintosh Plus to Hayes Modem Compatible Cable

- Connects Macintosh Plus computers to popular Hayes modems ■ RS-232 25 pin male to subminiature 8 pin DIN plug ■ Available in 6' and 12' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-0485	6'	\$6.70	\$5.70
83-0490	12'	7.25	6.25



Commodore Type Cables

Amiga Type Printer Cable

- Interfaces Amiga computers to printers with centronics connectors
- DB-25 pin connector to 36 pin centronics connector ■ 6' length

#83-0015 \$12⁴⁵₍₁₋₉₎ \$10⁷⁰_(10-up)

Commodore 128 Type Cable

- Adapts non-RGB type monochrome monitor to the RGB output of computer
- Provides 80 column capability
- DB-9 male to RCA male ■ 6' length

#83-835 \$4¹⁰₍₁₋₉₎ \$3⁵⁰_(10-up)

Commodore Type Interface Cable

- Used to interface Commodore 64 or VIC 20 to printers and disk drives
- High quality molded construction
- 6 pin DIN to 6 pin DIN ■ 6' length

#83-635... \$3⁸⁰₍₁₋₉₎... \$3¹⁵₍₁₀₋₄₉₎... \$2⁷⁵_(50-up)

Commodore Type Monitor Cable

- Same as used on Commodore computers ■ 5 pin DIN connector to dual RCA connector ■ Provides composite video and audio outputs
- 6' length

#83-305... \$2⁷⁵₍₁₋₉₎... \$2¹⁵₍₁₀₋₄₉₎... \$1⁹⁰_(50-up)

IBM Type Cables

Keyboard Extension for IBM PC Computer

- Extend the reach of your keyboard by 6' or 12' ■ High quality shielded coiled cord ■ 5 pin DIN plug to 5 pin DIN jack
- Available in 6' and 12' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-420	6'	\$3.95	\$3.25
83-425	12'	4.85	4.15

IBM Type RGB Monitor Cable

- Allows use of Amdek and other monitors using 8 pin video connector with IBM PC ■ Male DB-9 connector to male 8 pin video connector ■ 6' length

#83-920 \$7²⁵₍₁₋₉₎ \$6²⁵_(10-up)

IBM Type Monitor Cable

- 9 pin male to 9 pin female shielded cable ■ Also used for NCR PC4 ■ High quality molded construction
- 5' length

#83-705 \$7²⁵₍₁₋₉₎ \$6²⁵_(10-up)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



IBM Type Cables

IBM Type PC Monitor AC Adaptor

■ Allows use of monitor other than IBM with IBM PC or XT ■ Available in 1', 6' and 12' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-0075	1'	\$3.85	\$3.25
83-895	6'	4.95	4.20
83-890	12'	6.90	6.20

IBM Type Monitor AC Extension Cord

■ Allows user to extend the length of IBM monitor cables ■ Available in 1' and 6' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-0090	1'	\$3.95	\$3.25
83-0020	6'	4.80	4.05

Computer Power Cord

■ Power cord used by many computer and test equipment manufacturers ■ 18 gauge ■ Available in 3', 6' and 10' lengths

Order #	Length	Price		
		(1-9)	(10-49)	(50-up)
23-145	3'	\$2.20	\$2.00	\$1.80
23-130	6'	2.95	2.50	2.25
23-200	10'	4.00	3.55	3.10

Right Angle Power Cord

■ Widely used in test equipment and computers ■ 18 gauge ■ Available in 3' and 6' lengths

Order #	Length	Price		
		(1-9)	(10-49)	(50-up)
23-180	3'	\$3.35	\$3.00	\$2.65
23-185	6'	3.85	3.45	2.90

IBM AT Type Serial Cable

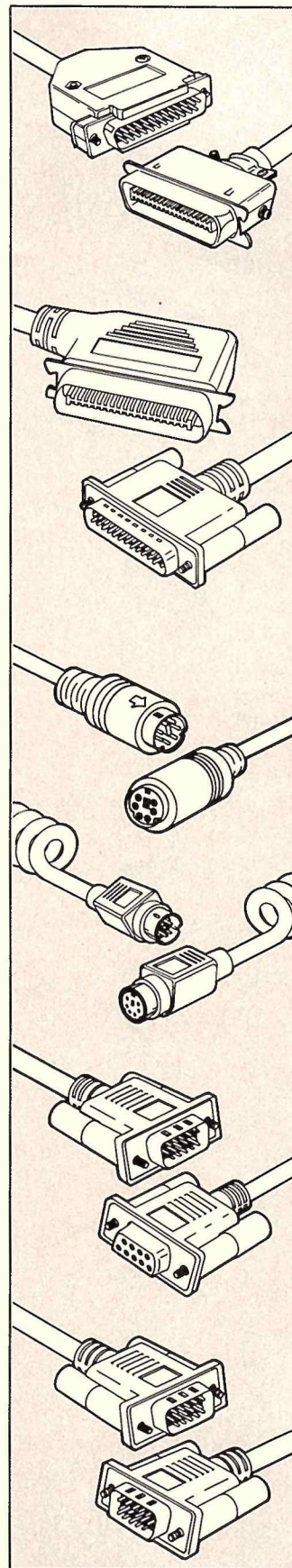
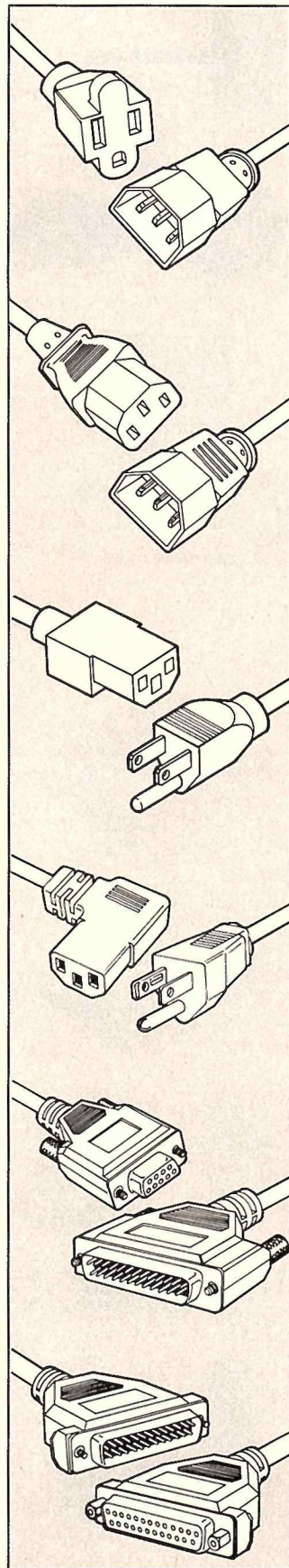
■ Use to interface IBM PC or AT to printers with serial ports ■ Molded construction ■ Thumbscrews for easy hook-up ■ DB-9 female to DB-25 male connector ■ Available in 6' and 12' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-930	6'	\$7.95	\$6.85
83-925	12'	9.40	8.05

IBM Type Modem Cable

■ Completely shielded ■ Used to interface IBM PC with stand alone modems ■ Can also be used with other serial port computers ■ Gold plated contacts ■ Male to female ■ 3' length

#83-415		\$8.50 (1-9)	\$7.35 (10-up)
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IBM Type Cables

IBM Type Parallel Printer Cable

■ Interfaces IBM PC, Apple II and other computers to parallel printers ■ 25 pin male RS-232 to 36 pin male centronics type connector ■ Completely shielded ■ Gold plated contacts ■ Available in 6' and 12' lengths

Order #	Length	Price	
		(1-9)	(10-up)
83-430	6'	\$10.40	\$ 8.95
83-435	12'	11.95	10.75

Right-Angle IBM Type Parallel Printer Cable

■ Interfaces IBM PC, Apple II and other computers to parallel printers ■ 25 pin male RS-232 to right-angle 36 pin male centronics type connector ■ Completely shielded ■ Gold plated contacts ■ Available with turn toward pin 1 side or toward pin 18 side of centronics connector ■ 6' length

Order #	Type	Price	
		(1-9)	(10-up)
83-0310	Pin 1	\$14.50	\$12.50
83-0305	Pin 18	14.50	12.50

IBM PS/2 Type Cables

IBM PS/2 Type Keyboard Cable

■ 6 pin mini DIN male to 6 pin mini DIN female ■ Beige ■ 6' length

#83-0335		\$6.45 (1-9)	\$5.45 (10-up)
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IBM PS/2 Type Keyboard Extension Cable

■ 3' coiled extension cable stretches to 12' ■ Provides extra mobility for users of IBM PS/2 computers ■ 6 pin DIN male to 6 pin DIN female ■ Beige

#83-0290		\$7.40 (1-9)	\$6.35 (10-up)
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DB-9 Female to High Density 15 Pin Male Cable

■ Allows NEC multisync monitors to interface with IBM PS/2 computers ■ Thumb screws for easy connection ■ Beige ■ 6' length

#83-0340		\$10.00 (1-9)	\$8.60 (10-up)
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High Density 15 Pin Cables

■ For use with IBM PS/2 computers ■ Thumb screws for easy hook-up ■ Beige ■ 6' length ■ Available in three configurations

Order #	Type	Price	
		(1-9)	(10-up)
83-0345	Male to Male	\$12.25	\$11.00
83-0350	Male to Female	10.30	8.90
83-0355	Female to Female	12.75	11.50



RS-232 25 Pin Extension Cable

■ Completely shielded ■ Male to female connectors ■ Available in 6' and 12' lengths

#83-505 (6') \$9⁹⁵₍₁₋₉₎ \$8⁵⁰_(10-up)

#83-510 (12') ... \$11⁷⁰₍₁₋₉₎ ... \$10⁵⁰_(10-up)

RS-232 25 Pin Cable

■ Completely shielded ■ Male to male connectors ■ Available in 6' and 12' lengths

#83-640 (6') \$10⁰⁵₍₁₋₉₎ \$8⁵⁵_(10-up)

#83-645 (12') ... \$12⁰⁰₍₁₋₉₎ ... \$10⁸⁰_(10-up)

RS-232 25 Pin Cable

■ RS-232 25 pin male to computer cable ■ Ideal for making custom cables ■ Available in 10' and 15' lengths

#83-0465 (10') \$8²⁰₍₁₋₉₎ \$7⁰⁵_(10-up)

#83-0470 (15') ... \$10⁶⁵₍₁₋₉₎ ... \$9¹⁵_(10-up)

DB-9 Shielded Cable Assemblies

■ High quality molded construction ■ Use with IBM monitors and other applications ■ Available in male to male and male to female, 6' and 12' lengths

DB-9 Male to Male

#83-945 (6') \$7⁸⁰₍₁₋₉₎ \$6⁷⁰_(10-up)

#83-950 (12') \$7⁹⁵₍₁₋₉₎ \$6⁸⁵_(10-up)

DB-9 Male to Female

#83-940 (6') \$7³⁰₍₁₋₉₎ \$6²⁵_(10-up)

#83-935 (12') \$10⁸⁵₍₁₋₉₎ \$9⁷⁵_(10-up)

36 Pin Centronics Type Extension Cable

■ Completely shielded ■ Male to female connectors ■ Available in 6' and 12' lengths

#83-720 (6') \$17⁹⁵₍₁₋₉₎ \$15⁹⁵_(10-up)

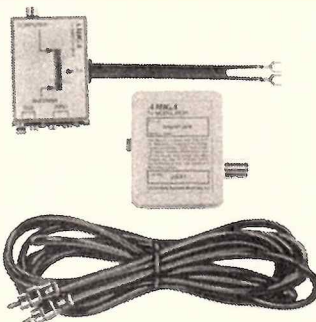
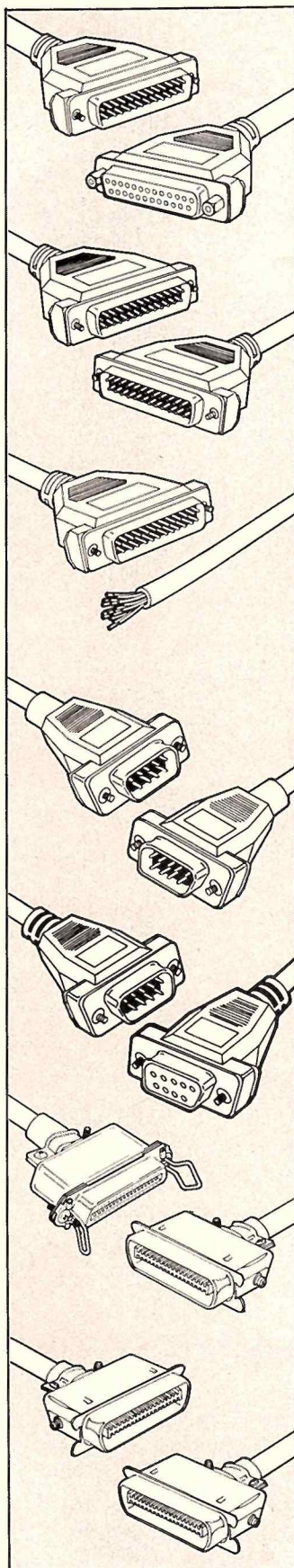
#83-725 (12') ... \$20⁹⁵₍₁₋₉₎ ... \$18⁹⁵_(10-up)

Parallel Printer Cable

■ Interfaces micro computers to all centronics compatible printers ■ Completely shielded ■ 36 pin to 36 pin centronics type male connectors ■ Gold plated contacts ■ Available in 6' and 12' lengths

#83-480 (6') \$12⁴⁰₍₁₋₉₎ \$11¹⁵_(10-up)

#83-485 (12') ... \$17⁹⁵₍₁₋₉₎ ... \$16¹⁵_(10-up)



Amiga RF Modulator Kit

■ Original Commodore modulator permits use of TV as a monitor for Amiga computer ■ Diagram included for use with other audio/video sources ■ Switchable for use on channels 3 or 4 ■ 5-7VDC operation ■ Kit contains: RF modulator, TV/computer switch and 10', RG-59 hook-up cable

#83-0315 \$5³⁵_(1-9 kits) \$4⁵⁵_(10 kits-up)

TENMA™

RS-232 Break Out Box

This break out box provides a quick and easy way to troubleshoot or customize any RS-232 data line.

Features: ■ Monitors individual communication interface lines ■ Detects the presence or absence of activity ■ Rewires RS-232 interfaces ■ Line powered ■ Dual-state LEDs monitor both positive and negative signal levels ■ Monitors lines 2, 3, 4, 5, 6, 8, 15, 17, 20 and 24 ■ 48 test points ■ 20 jumpers included ■ One male and one female RS-232 connector ■ Rugged plastic case ■ Dimensions: 3 1/4" (W) x 1" (H) x 3 1/2" (D)

#72-440 \$47²⁵_(ea.) \$42⁹⁵_(2-up)

RS-232 Null Modem Adaptor

■ Eliminates the need for a modem when transferring data over short transmission runs ■ DB-25 male to DB-25 female ■ Pins 4 and 5 jumpered as well as pins 6, 8, and 20 ■ All other pins wired straight through

#83-0190 \$4⁹⁵₍₁₋₉₎ \$4²⁰_(10-up)

RS-232 Surge Protector

■ Helps eliminate surges generated by static discharge on data line ■ DB-25 male to DB-25 female ■ MOVs protect lines 2, 3, 4, 5, 6, 7, 8 and 20 from static discharge ■ All 25 pins are wired through

#83-830 \$12⁴⁰₍₁₋₉₎ \$11¹⁵_(10-up)

RS-232 Jumper Box

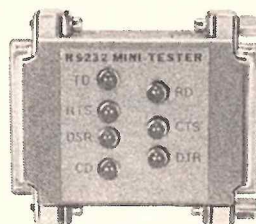
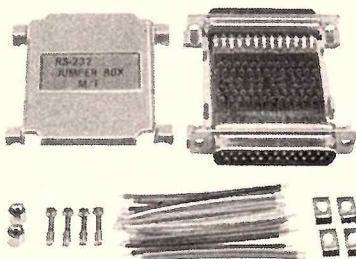
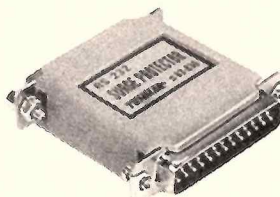
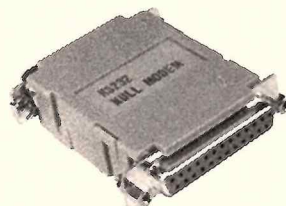
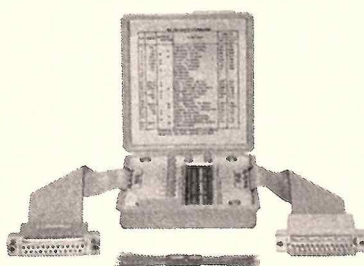
■ Allows user to customize their own interface device such as null modems, polarity changer, pin reversers and many more ■ Male to female connectors ■ 25 pin ■ Supplied with all jumper wires and hardware

#83-740 \$8⁷⁰₍₁₋₉₎ \$7⁵⁰_(10-up)

RS-232 25 Pin Line Tester

■ Allows user to monitor the status of seven signals in the RS-232 data line: (TD) transmit data, (RD) receive data, (RTS) request to send, (CTS) clear to send, (DSR) data set ready, (CD) carrier detect, (DTR) data terminal ready ■ Red LED indicators ■ All 25 pins are wired pin for pin ■ Male to female

#83-700 \$12⁴⁵₍₁₋₉₎ \$10⁷⁰_(10-up)





Adaptors

IBM Type Printer Adaptor

- Allows user to use a RS-232 25 pin extension cable as a IBM Printer Cable
- RS-232 25 pin male to 36 pin male centronics type connector

#83-745 \$0⁶⁵₍₁₋₉₎ \$7⁴⁰_(10-up)

IBM AT Type Adaptor

- 9 pin "D" sub female to 25 pin "D" sub male ■ High quality molded construction ■ Thumbscrews for easy hook-up

#83-0255 \$5³⁵₍₁₋₉₎ \$4⁵⁵_(10-up)

Modem Adaptor

- Male to female with pins 2 and 3 reversed ■ Highly durable molded plastic design ■ Completely shielded ■ Gold plated contacts

#83-500 \$5⁸⁵₍₁₋₉₎ \$4⁹⁵_(10-up)

RS-232 25 Pin Gender Adaptors

- RS-232 25 pin gender adaptors in male to male or female to female configuration ■ Completely shielded ■ Gold plated contacts

#83-490 Male to Male
#83-495 Female to Female
\$5⁸⁵₍₁₋₉₎ \$4⁹⁵_(10-up)

DB-15 Gender Adaptors

- 15 pin gender adaptor in male to male or female to female configuration ■ Completely shielded ■ Gold plated contacts ■ Highly durable molded plastic design

#83-0095 Male to Male
#83-0100 Female to Female
\$6²⁵₍₁₋₉₎ \$5³⁰_(10-up)

DB-9 Gender Adaptors

- 9 pin gender adaptor in male to male or female to female configuration ■ Completely shielded ■ Gold plated contacts ■ Highly durable molded plastic design

Male to Male
#83-980 \$4⁶⁰₍₁₋₉₎ \$3⁹⁵_(10-up)

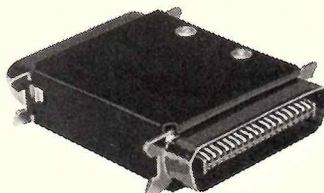
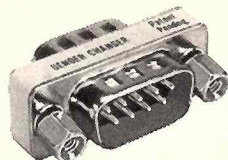
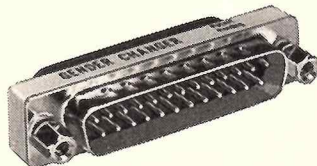
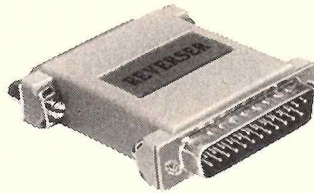
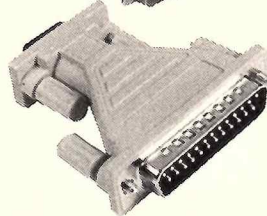
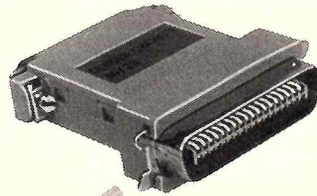
Female to Female
#83-975 \$4⁵⁰₍₁₋₉₎ \$3⁸⁵_(10-up)

Centronics Gender Adaptors

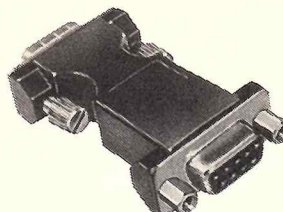
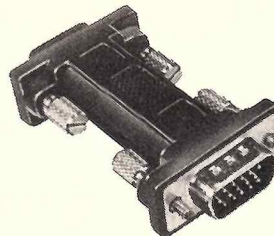
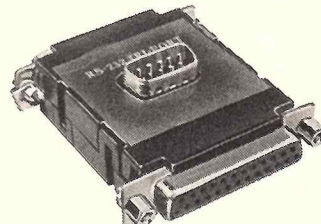
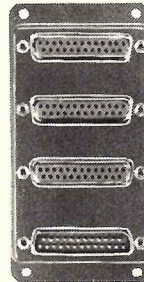
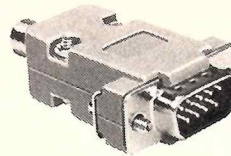
- 36 pin gender adaptor in male to male or female to female configuration ■ All 36 pins wired straight through ■ Fully shielded ■ Gold plated contacts

Male to Male
#83-0195 \$8¹⁵₍₁₋₉₎ \$7⁰⁰_(10-up)

Female to Female
#83-0045 \$13⁵⁰₍₁₋₉₎ \$12¹⁵_(10-up)



Adaptors



DB-9 Male to RCA Adaptor

- Adaptor for Commodore 128 computers ■ Allows non RGB monochrome monitors to be used with computers with RGB outputs ■ Male DB-9 to RCA jack

#83-0480 .. \$1⁸⁵₍₁₋₉₎ .. \$1⁴⁵₍₁₀₋₄₉₎ .. \$1¹⁵_(50-up)

Multi-Port Gender Adaptor

- Converts one male RS-232 connector to three female RS-232 connectors

#83-0180 \$22⁴⁰₍₁₋₄₎ \$20¹⁵_(5-up)

Multi-Port Gender Adaptor

- Converts one female RS-232 connector to three male RS-232 connectors

#83-0185 \$21⁷⁰₍₁₋₄₎ \$19⁵⁰_(5-up)

Triport Adaptors

- Allows two RS-232 DB-25 interfaces to share a DB-9 interface or one RS-232 DB-25 and one DB-9 interface to share RS-232 DB-25 interface ■ DB-9 to DB-25 pin out is same as AT modem type

DB-25 Male to Female and DB-9 Male

#83-0380 \$7³⁵₍₁₋₉₎ \$6³⁵_(10-up)

DB-25 Male to Female and DB-9 Female

#83-0385 \$7³⁵₍₁₋₉₎ \$6³⁵_(10-up)

IBM PS/2 Type Gender Adaptors

- High density DB-15 gender adaptor in male to male or female to female configurations ■ Completely shielded ■ Gold plated contacts ■ Molded plastic for durability

Male to Male

#83-0390 \$10⁷⁵₍₁₋₉₎ \$9²⁵_(10-up)

Female to Female

#83-0395 \$11⁴⁰₍₁₋₉₎ \$9⁸⁰_(10-up)

IBM PS/2 Type Monitor Adaptor

- High density DB-15 male to DB-9 female ■ Allows NEC multisync monitors to interface with PS/2 computers ■ Gold plated contacts

#83-0400 \$6⁴⁵₍₁₋₉₎ \$5⁵⁵_(10-up)

IBM PS/2 Type Keyboard Adaptor

- 6 pin mini DIN male to 5 pin DIN female ■ Allows use of IBM AT keyboard with IBM PS/2 computer ■ Note: For use with IBM model 50 only

#83-0405 \$5⁰⁵₍₁₋₉₎ \$4³⁰_(10-up)



COMPUTER EQUIPMENT

TENMA™ Port Switches

Eliminates the need to plug and unplug cables when you need to use a different peripheral device. Enables you to access one printer from different computers, or access multiple printers from one computer with the turn of a switch. All port switches have female connectors.

Centronics Type

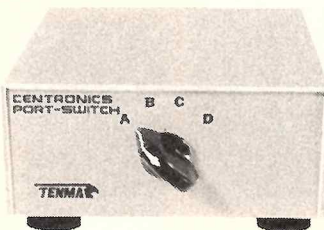
36 pin centronics type connectors ■ All pins switched pin for pin

Two-Way

#83-610 \$34⁷⁵₍₁₋₄₎ \$32³⁰_(5-up)

Four-Way

#83-850 \$48⁷⁵₍₁₋₄₎ \$46⁸⁰_(5-up)



"D" Sub Type

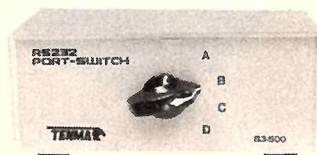
■ All pins switched pin for pin
■ 25 pin connectors

Two-Way

#83-605 \$27⁹⁰₍₁₋₄₎ \$25⁹⁵_(5-up)

Four-Way

#83-600 \$36⁴⁰₍₁₋₄₎ \$34⁹⁵_(5-up)



AB "X" Switch

■ 25 pin connectors
■ Enables the alternate use of two computers and two peripherals

#83-615 \$36²⁵₍₁₋₉₎ \$34⁷⁵_(10-up)



TENMA™ 8 Pin Mini DIN Type Port Switches

Two-Way Switch

■ All pins switched pin for pin ■ Printed circuit board for low crosstalk ■ Full metal case ■ Female connectors ■ For use with Macintosh computers and peripherals ■ Includes 8 pin mini DIN straight through cable

#83-0070 \$27⁹⁵₍₁₋₄₎ \$25¹⁵_(5-up)



AB "X" Switch

■ All pins switched pin for pin
■ Enables the alternate use of two computers and two peripherals

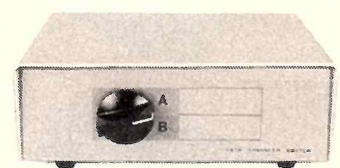
#83-0145 \$23⁹⁵₍₁₋₄₎ \$22⁴⁰_(5-up)



RJ-14 or RJ-11 Type Port Switch

■ All pins switched pin for pin
■ Provides practical method for interconnecting computers and their peripheral devices ■ Fully shielded exceeds F.C.C. requirements ■ All metal construction

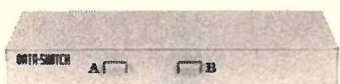
#83-0115 \$25⁵⁰₍₁₋₄₎ \$22⁹⁵_(5-up)



Two-Way Twinaxial Type

■ Twinaxial type connectors

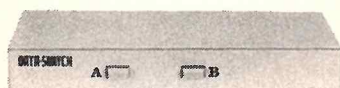
#83-0150 \$28⁹⁵₍₁₋₄₎ \$26⁹⁵_(5-up)



Two-Way BNC Type

■ BNC type connectors

#83-0155 \$24⁹⁵₍₁₋₄₎ \$22⁴⁰_(5-up)



Mini Port Switches

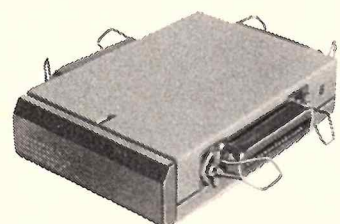
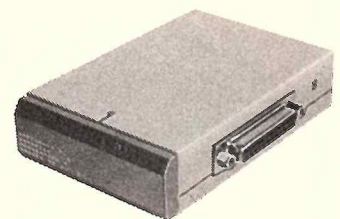
■ These mouse-sized switches are designed for easy attachment to CPU, monitor or computer station ■ The front of the port switch is a button that switches from channel A to B ■ Designed with a large switch with gold-plated contacts to ensure long life ■ Self-adhesive hook and loop fastener is included for easy attachment ■ Printed circuit board construction for low crosstalk ■ Two-way switch ■ Available with "D" sub and centronics connectors ■ Dimensions: 3" (W) x 1" (H) x 4 1/2" (D)

25 Pin "D" Sub

#83-0200 \$26⁰⁵₍₁₋₄₎ \$23⁵⁰_(5-up)

36 Pin Centronics

#83-0205 \$27⁷⁰₍₁₋₄₎ \$25⁷⁵_(5-up)

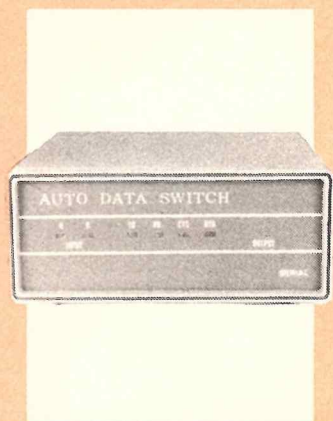


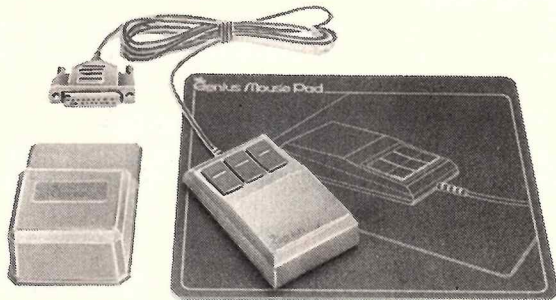
Auto Data Switches

■ Allows two PCs to share one peripheral ■ Switch scans between two PCs and locks on to PC that is transmitting data to the peripheral until finished ■ No need to turn switch manually ■ LEDs indicate "ready", "busy" or "in use" modes ■ Available in serial and parallel ■ All connectors are RS-232 25 pin female ■ Power requirements: AC adaptor included ■ Dimensions: 6" (W) x 2 3/4" (H) x 6 1/2" (D)

#83-0410 Serial

#83-0415 Parallel \$95²⁵_(ea.)



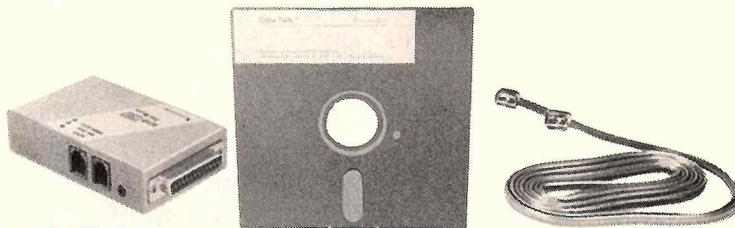


Genius Mouse

■ Enhance your IBM or compatible PC with a mouse ■ Soft switchable between Mouse Systems mouse and Microsoft mouse ■ Super high tracking speed (500mm/sec) and resolution (200 DPI) ■ Comes with Menumaker software for creating pop-up menus for use with Lotus 1-2-3, Wordstar, etc.; even your own programs ■ Included Dr. Halo III software lets you create sophisticated graphics ■ Compatible with CGA, EGA, Hercules, PGA, and VGA displays ■ Mouse holder and pad included

Specifications: ■ Serial interface ■ Internal power supply ■ 30-200 DPI resolution

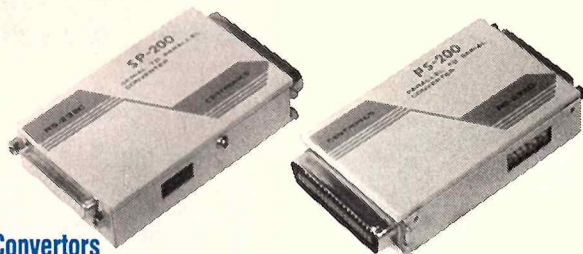
#83-0210 \$69⁹⁵ (ea.)



Pocket Modem

■ Compatible with CCITT V.21, V.22 and Bell 103/212A standards for asynchronous communication at speeds of 0-300 and 1200 bps ■ Auto-dial and auto-answer ■ Touch-tone and pulse dialing ■ Pocket size; goes anywhere ■ Datatalk software included ■ Fully Hayes compatible ■ 9V battery, telephone cable, user's guide and carrying case included ■ FCC registered ■ Dimensions: 2 3/4" (W) x 3 7/8" (H) x 1 5/16" (D)

#83-0220 \$119⁹⁵ (ea.)



Data Converters

■ Allows hook-up of your PC to almost any peripheral ■ Selectable baud rates ■ Selectable word length: 5, 6, 7, or 8 data bits ■ Supports DCE or DTE transmission modes ■ Connects directly between equipment or cables ■ Available in serial to parallel or parallel to serial configurations ■ The converter is powered by the host RS-232 interface ■ Does not support Xon/Xoff flow control

Serial to Parallel

■ Female 25 pin to male 36 pin

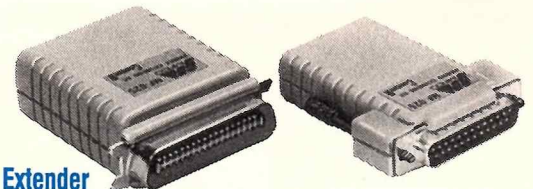
#83-0170 \$59⁹⁵ (1-4) \$57⁵⁰ (5-up)

Parallel to Serial

■ Male 36 pin to female 25 pin

#83-0175 \$59⁹⁵ (1-4) \$57⁵⁰ (5-up)

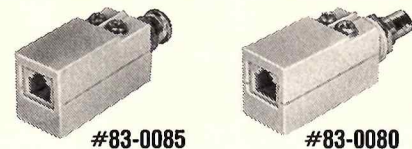
NEW



Parallel Printer Extender

■ Extend the distance between your PC and parallel printer up to 50' without custom cables ■ **Kit contains:** Transmitter, receiver and 50' of 6 conductor telephone wiring ■ Transmitter is RS-232 male and receiver is centronics 36 pin male ■ No external power supply needed ■ Display packaged

#83-0755 \$78⁰⁰ (ea.)

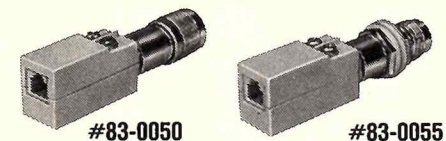


BNC Baluns

■ RJ-11/14 modular jack and twisted pair screw terminals ■ Reduces system installation cost by replacing expensive coaxial cable with low cost twisted pair wiring ■ 1500' maximum distance ■ Available in male and female configurations

#83-0085 Male \$14⁹⁵ (1-9) \$13⁵⁰ (10-up)

#83-0080 Female



Twinaxial Baluns

■ RJ-11/14 modular connector and twisted pair screw terminals ■ Reduces system installation cost by replacing expensive twinaxial cable with low cost twisted pair wiring ■ 1500' maximum distance ■ Available in male and female configurations

#83-0050 Male \$14⁹⁰ (1-9) \$13⁴⁰ (10-up)

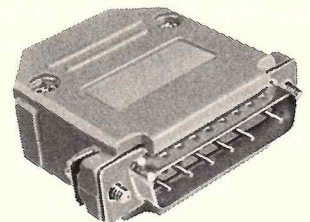
#83-0055 Female

Modular Phone to RS-232 Male Adaptor Kit

■ Allows user to make computer cables using modular phone cords ■ User can customize his own configuration for different applications ■ Modular jack, male RS-232

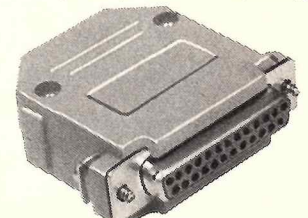
#83-865 (4 wire) \$3⁷⁰ (1-9 kits) \$3⁰⁵ (10-49 kits) \$2⁶⁵ (50 kits-up)

#83-870 (6 wire) \$3⁸⁵ (1-9 kits) \$3¹⁵ (10-49 kits) \$2⁷⁵ (50 kits-up)



Modular Phone to RS-232 Female Adaptor Kits

■ Allows user to make computer cables using modular phone cords ■ User can customize his own configuration for different applications ■ Modular jack, female RS-232



Type	Order #	(1-9 kits)	Price (10-49 kits)	(50 kits-up)
4 Wire	83-0430	\$3.15	\$2.60	\$2.20
6 Wire	83-0440	3.15	2.60	2.20
8 Wire Unkeyed	83-0420	3.85	3.25	—
8 Wire Keyed	83-0475	3.85	3.30	—

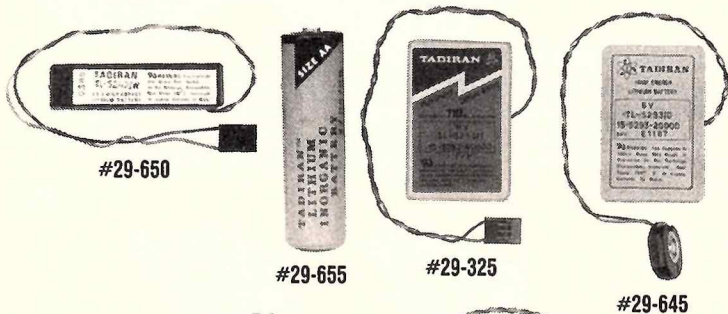


COMPUTER EQUIPMENT

TADIRAN
ELECTRONIC INDUSTRIES INC.

Computer Batteries

High energy, long life, lithium batteries used to back-up real time clocks. All except #29-655 come with self-sticking hook and loop fasteners for easy attachment.



Order #	Voltage	Price (1-4)	Price (5-up)
29-650	3.6	\$10.00	\$8.50
29-655	3.6	11.30	9.65
29-325	6	16.95	14.41
29-645	6	15.95	13.50
29-640	7.2	17.78	15.11

Manufacturer	Model	Order #
Acer	AT 286	29-325
Advantage	AT	29-325
American Computer	AT	29-325
AST	Premium 286	29-650
	Premium 386	29-650
Club AT	Club AT	29-325
Compaq	Portable II (New)	29-640
	Deskpro 286	29-640
	Deskpro 386	29-640
Cordata	Cordata	29-655
Corona	Corona PC	29-655
Corvus	Corvus AT	29-325
Epson	Equity 3	29-325
Everex	1800A 8MHz	29-650
	1800B 10MHz	29-650
IBM	8775 Display Terminal	29-325
	5170 AT Computer	29-325
ITT	Extra 286 ATW	29-325

Manufacturer	Model	Order #
Kaypro	PC (New)	29-650
NCR	PC-8	29-325
Packard Bell	286	29-640
PCs Limited	286	29-325
	386	29-325
Pro Executive	286	29-325
Samsung	3001	29-325
Tandon	Targa 286	29-655
Tandy	3000HL	29-650
Televideo	4000	29-650
Toshiba	T1100	29-655
	T1200	29-655
	T3100	29-650
	T3200	29-650
	T5200	29-650
Wang	Wang PC	29-655
Zenith	Z-141	29-655
	Z-200	29-655
	Z-248	29-655

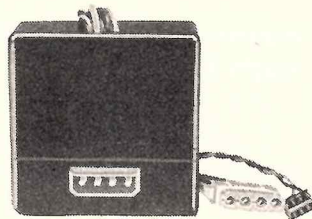
For computers that use a 6V coin cell battery, use #29-645 above

RUPP
BAT PAC

AT Rechargeable Battery

■ Up to a ten year life ■ Use the BAT pac for your IBM AT or AT compatible ■ The BAT pac continuously charges while your system is on ■ Safely backs up your clock and setups while the system is off ■ To install, simply plug a disk power cable into the BAT pac and plug the BAT pac into the battery connector on the motherboard

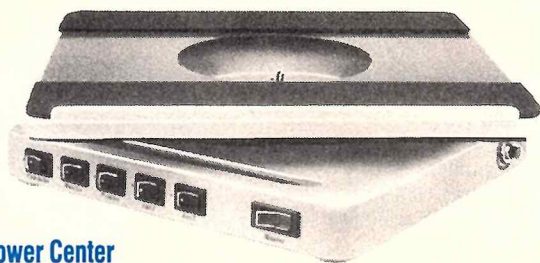
#29-745 \$39⁹⁵ (ea.)



Swivel Power Center

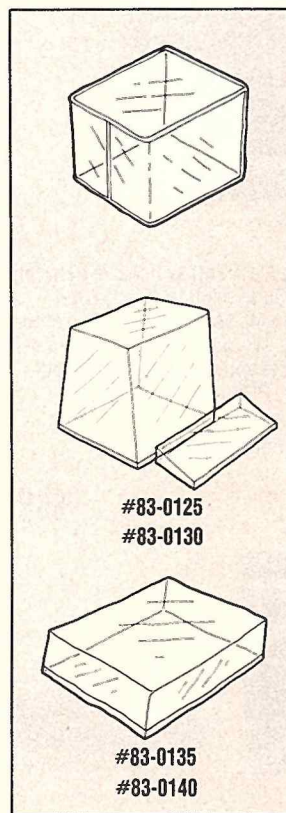
■ For 9"-12" monitors ■ Swivels 360° ■ Tilts 25° up and down ■ Built-in EMI filter and surge suppression ■ Power receptacles for computer, monitor printer, and two auxiliary receptacles ■ All peripherals are switched on power center ■ Illuminated master power switch ■ Built-in circuit breaker

#83-0120 \$49⁸⁰ (1-4) \$47⁸⁰ (5-up)



Computer Dust Covers

■ Protect your system and investment ■ Heavy gauge clear anti-static vinyl prevents static build-up ■ Helps keep harmful dust and contaminants from collecting on surfaces



Apple Macintosh Type

■ Fits Apple Macintosh 128K, 512K, 512KE, MacPlus, SE and SE/30 ■ Made of PVC vinyl

NEW

#83-0745 \$6⁵⁵ (1-9) \$5⁷⁰ (10-up)

IBM PC/XT Type

Dimensions: ■ Computer cover: 13 1/2" (W) x 16 1/2" (H) x 15 3/4" (D) ■ Keyboard cover: 21" (W) x 1 1/2" (H) x 11 1/4" (D)

#83-0125 \$7²⁰ (1-9) \$6²⁰ (10-up)

IBM PC/AT Type

Dimensions: ■ Computer cover: 21 1/2" (W) x 18" (H) x 17 1/2" (D) ■ Keyboard cover: 19 1/2" (W) x 1 3/4" (H) x 11 1/4" (D)

#83-0130 \$7⁸⁰ (1-9) \$6⁷⁵ (10-up)

80 Column Printer

Dimensions: ■ 17 3/4" (W) x 4" (H) x 13 1/8" (D)

#83-0135 \$4¹⁰ (1-9) \$3⁵⁰ (10-up)

132 Column Printer

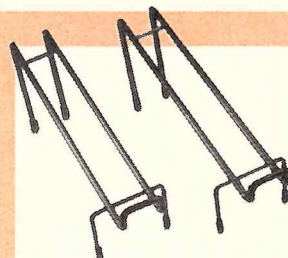
Dimensions: ■ 23" (W) x 4 1/2" (H) x 14 3/4" (D)

#83-0140 \$4⁸⁰ (1-9) \$4¹⁰ (10-up)

Printer Stand

■ Adjustable printer stand for 80 or 132 column printers ■ Durable vinyl clad steel construction ■ Black

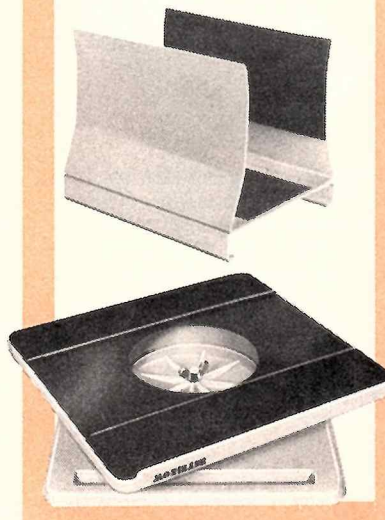
#83-0265 \$8⁹⁰ (1-9) \$7⁶⁵ (10-up)



CPU Floor Stand

■ A simple way to increase desk space ■ Made of heavy gauge steel with foam lining to protect CPU ■ Floor stand allows user to place CPU under desk ■ CPU stands on side ■ Adjustable

#83-0215 \$24⁹⁵ (1-3) \$21⁹⁵ (4-up)



Swivel Monitor Stand

■ For 9"-12" monitors ■ Swivels 360° ■ Tilts 12.5°

#83-855 \$14⁹⁵ (1-9) \$13⁶⁵ (10-up)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491

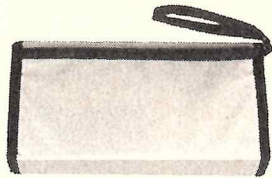


Disk Hand Carry Bags

- Helps to protect up to ten diskettes
- Provides anti-static and x-ray protection
- Available for 3 1/2" and 5 1/4" diskettes

3 1/2" Bag
#83-0160

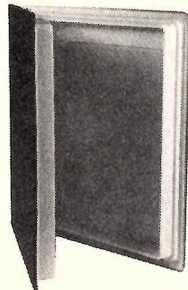
5 1/4" Bag
#83-0165 \$9⁹⁵₍₁₋₉₎ \$9²⁵_(10-up)



Diskette Transporter

- Helps to protect and store up to five 5 1/4" diskettes
- Shock absorbent construction provides protection when diskettes are mailed
- Simply drop the transporter in your mailing envelope and diskettes arrive safe and secure

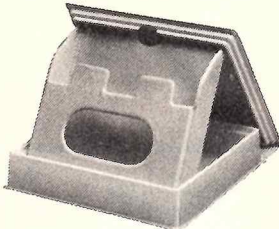
#83-165 \$2²⁰₍₁₋₉₎ \$1⁸⁰₍₁₀₋₄₉₎ \$1⁵⁰_(50-up)



Floppy Disk Storage Case

- Mini diskette library case
- Superior quality padded vinyl construction
- Holds ten 5 1/4" diskettes
- Reinforced bindings for added strength
- Clear plastic index pocket for easy labeling
- Dimensions: 7" (W) x 1 3/4" (H) x 7" (D)

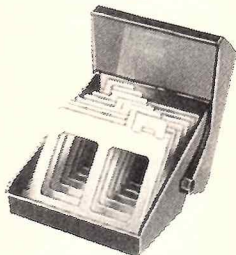
#83-160 \$4⁹⁰₍₁₋₉₎ \$4¹⁰_(10-up)



5 1/4" Diskette File Box

- Stores up to 70—5 1/4" diskettes
- Case made of anti-static ABS plastic with smoked acrylic cover
- Six adjustable index dividers
- Dimensions: 6 3/4" (W) x 6 3/4" (H) x 9 1/2" (D)

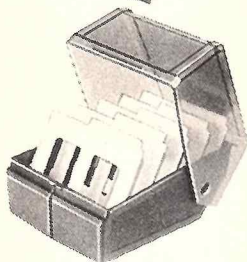
#83-710 \$11⁸⁰₍₁₋₉₎ \$10⁶⁵_(10-up)



3 1/2" Diskette File Box

- Stores and helps to protect up to 40—3 1/2" diskettes
- Smoked, see-through hinged top
- High impact plastic base
- Dimensions: 4 3/4" (W) x 4 1/4" (H) x 9 3/4" (D)

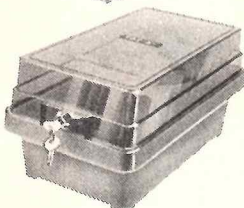
#83-805 \$12²⁰₍₁₋₉₎ \$10⁵⁰_(10-up)



5 1/4" Lockable Diskette File Box

- Helps to protect and store up to 100—5 1/4" diskettes
- Lockable case made of anti-static ABS plastic with acrylic cover
- Two keys included
- Nine adjustable index dividers
- Dimensions: 8" (W) x 4 3/4" (H) x 14 1/2" (D)

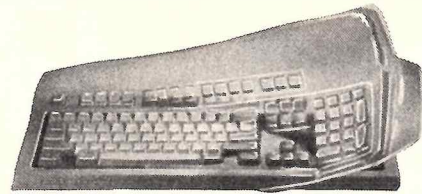
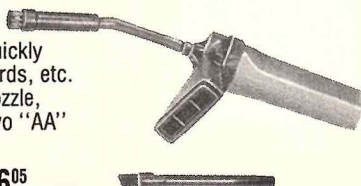
#83-715 \$14⁰⁵₍₁₋₉₎ \$10³⁵_(10-up)



Mini Vacuum Kit

- Ideal for computer field service
- Quickly removes dust and debris from keyboards, etc.
- Kit contains: Filter, brush, crevice nozzle, straight and angled pipettes
- Uses two "AA" batteries (not included)

#21-765 .. \$7⁷⁵_(1-9 kits) .. \$6⁷⁵_(10-24 kits) .. \$6⁰⁵_(25-49 kits)



SafeSkins Keyboard Covers

SafeSkins are the only keyboard covers designed to remain in place during keyboard use. SafeSkins helps to prevent damage and costly computer downtime due to liquid spills, dust, cigarette ashes, paper clips and other foreign matter from entering delicate keyboard electronics. Composed of high-tech polymer for flexibility and high durability. Made in USA.

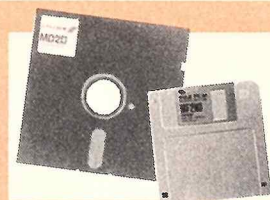
Order #	Keyboard Type	Order #	Keyboard Type
83-0610	Apple II GS	83-0585	IBM 3270
83-0615	Apple Mac SE	83-0645	IBM AT Original
83-0590	Apple Mac II/SE Ex	83-0575	IBM Enhanced/PS2
83-0625	AT&T 6300 (301)	83-0595	IBM PC/XT Original
83-0685	AST Premium 286/38	83-0650	Keytronic KB 101
83-0630	BTC 5339	83-0655	Maxi-Switch ME101
83-0670	Commodore 64C	83-0660	Maxi-Switch PC/AT
83-0620	Compaq 386/286	83-0680	Tandy 1000 NL
83-0580	DEC VT220	83-0675	Tandy 1000 SX/TX
83-0635	Epson Equity I/II	83-0600	Wyse 50175/350
83-0640	Hi-Tek RT 101 plus	83-0605	Wyse 600 Enhanced
83-0665	HP Vectra		

\$18⁹⁵₍₁₋₃₎ \$16⁹⁵_(4-up)



Floppy Diskettes

High quality Fuji diskettes are designed for reliable data storage. Heavy duty plastic shells and the latest in disk technology helps to keep your data safe. All diskettes are double sided and sold in boxes of ten.



#83-0505 (5 1/4" Double Density)	\$9 ¹⁰ _(1-4 boxes)	\$8 ⁵⁵ _(5 boxes-up)
#83-0510 (5 1/4" High Density)	\$17 ⁵⁰ _(1-4 boxes)	\$16 ⁵⁰ _(5 boxes-up)
#83-0515 (3 1/2" Double Density)	\$16 ⁹⁵ _(1-4 boxes)	\$15 ⁸⁰ _(5 boxes-up)
#83-0520 (3 1/2" High Density)	\$34 ⁹⁵ _(1-4 boxes)	\$31 ⁹⁵ _(5 boxes-up)

Disk Drive Head Cleaning Kits

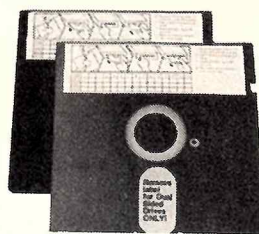
- Helps prevent read/write errors
- Each cleaning disk can be used 15 times
- The label provides record of usage
- Can be used for single or double sided drives
- Kit contains: Two cleaning diskettes and a bottle of cleaning solution

3 1/2" Kit

#83-592 \$9⁵⁵_(1-9 kits) \$8²⁵_(10 kits-up)

5 1/4" Kit

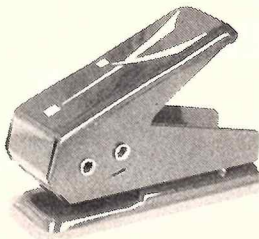
#83-590 \$6⁹⁵_(1-9 kits) \$5⁹⁵_(10 kits-up)



Diskette Notcher

- Expand your disk capacity by turning single side disks into double sided
- Accurate position guide
- Square notch cut
- Plastic clippings catcher

#83-730 \$7²⁰₍₁₋₉₎ \$6¹⁵_(10-up)



IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



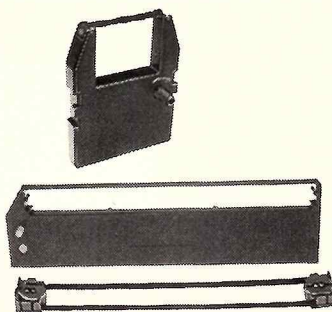


COMPUTER ACCESSORIES

Commodore Type Printer Ribbons

- Exact replacements for worn ribbons
- For the Commodore MPS801, MPS802, and 1525 type printers

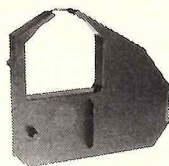
Order #	Type	Price	
		(1-9)	(10-up)
83-0455	MPS801	\$6.70	\$5.70
83-0495	MPS802	6.55	5.65
83-0460	1525	4.50	3.75



Epson Replacement Printer Ribbon

- Epson approved
- For Epson model LQ-1500

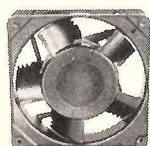
#83-800 \$9²⁵₍₁₋₉₎ \$8⁴⁰_(10-up)



Cooling Fan

- 105cfm free-air delivery
- Continuous duty ■ 120VAC ■ 17 oz.
- Dimensions: 4 1/16" square x 1 1/2" depth

#28-013 \$14⁹⁵₍₁₋₉₎ \$13⁵⁰_(10-up)

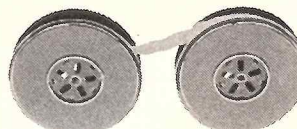


NEW

#83-0555

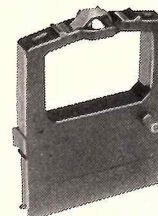


#83-0560



#83-0550

#83-0545



Okidata Type Printer Ribbons

- Replacements for worn ribbons
- Available for the 292, 293, ML84 and ML182

Order #	Type	Price	
		(1-9)	(10-up)
83-0555 NEW	292	\$10.50	\$ 9.50
83-0560	293	12.25	11.05
83-0550	ML84	7.25	6.20
83-0545	ML182	6.55	5.65

Computer Cards

MCM now carries popular cards for IBM compatible personal computers. Allows user to upgrade PC's graphic, I/O or memory capabilities. Now you can upgrade your PC for a fraction of the cost.

AT I/O Card

NEW

- Compatible with IBM PC/AT, 286 and 386 machines
- One asynchronous serial port configurable for COM 1, COM 2 or disable (slot bracket and 25 pin "D" connector cable included)
- One parallel printer port configurable for LPT2, LPT3 or disable
- One game port

#83-0760 \$22⁹⁰₍₁₋₉₎ \$19⁷⁰_(10-up)

XT RS-232 Card

NEW

- Two serial ports configurable to COM 1, COM 2 or disable (slot bracket and 25 pin "D" connector cable included)

#83-0790 \$18⁶⁰₍₁₋₉₎ \$16⁷⁵_(10-up)

XT Multi I/O Card

NEW

- Support up to two floppy disk drives (5 1/4"/360KB or 3 1/2"/720KB)
- One built-in asynchronous serial port (COM 1)
- Slot bracket and 25 pin "D" connector cable for second asynchronous serial (COM 2) included
- Built-in printer port configurable to LPT2 or LPT3
- One game port
- Real time clock with clock software included

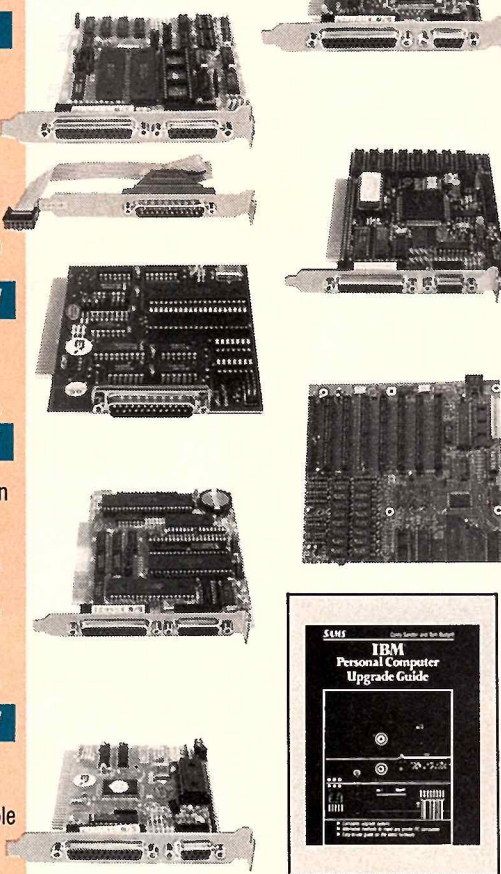
#83-0765 \$34⁸⁰₍₁₋₉₎ \$33⁴⁰_(10-up)

Super Dual Display Card

NEW

- Fully compatible with HGA and CGA monitors
- Mode switchable
- NTSC composite color or B/W signal output
- Built-in printer port configurable to LPT1, LPT2 or disable
- No software necessary for emulation mode

#83-0775 \$35⁵⁰₍₁₋₉₎ \$34⁰⁰_(10-up)



Monochrome Graphic Card

NEW

- Hercules monochrome graphics adaptor compatible
- Built-in printer port configurable to LPT1 or disable

#83-0770 \$33⁷⁵₍₁₋₉₎ \$31⁵⁰_(10-up)

Ultimate EGA Card

NEW

- Supports Hi Res 640 x 480 (software drivers included)
- Software switchable between EGA, CGA, MDA, HGC
- 256K video memory for faster graphics display
- Supports 132 columns in EGA and TTL monochrome monitors
- Built-in printer port configurable to LPT1, LPT2 or disable

#83-0780 \$99⁹⁵₍₁₋₉₎ \$94⁵⁰_(10-up)

Super Turbo XT Main Board

NEW

- Ultra-high speed V20 microprocessor
- Socket for 8087 math coprocessor (not included)
- Switchable between 4.77MHz (normal mode) and 12MHz (turbo mode)
- Eight expansion slots
- 0 or 1 wait state selectable
- 640K RAM installed, upgradable to 1024K
- Mini size: 8" x 1/2" footprint

#83-0795 \$119⁹⁵₍₁₋₉₎ \$110⁹⁵_(10-up)

IBM Personal Computer Upgrade Guide

NEW

This guide will help you upgrade your present IBM or IBM compatible computer whether it's new or old. This book guides you step-by-step on upgrades such as: selecting hard drives, printer options, operating system upgrades and expansion board options. Complete with easy-to-follow installation instructions. Tom Badgett, 285 pages, soft cover ©1990.

#81-1215 \$22⁹⁵_(ea.)

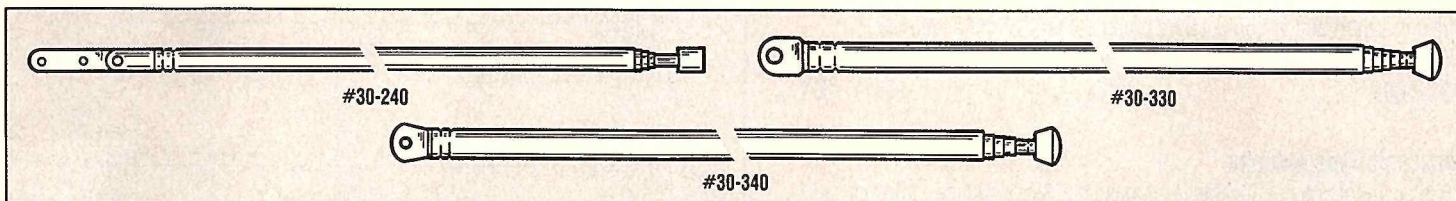


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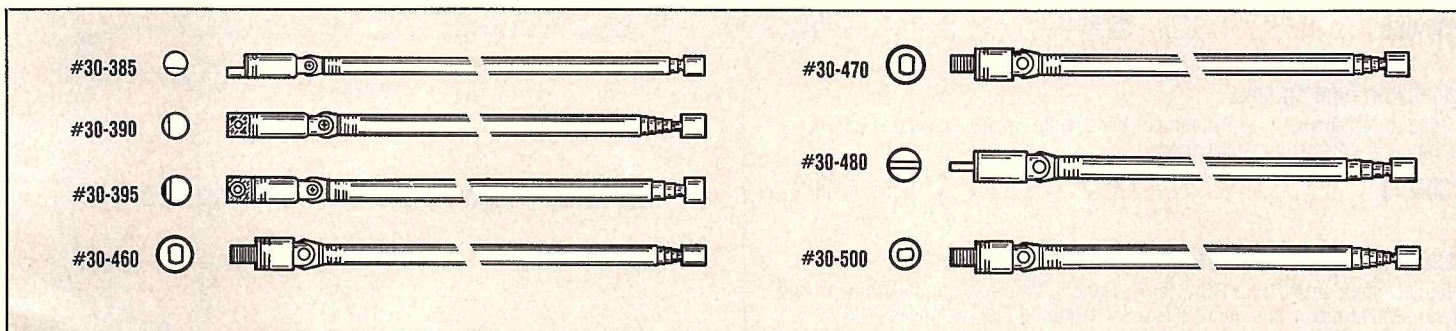


Popular Replacement Antennas



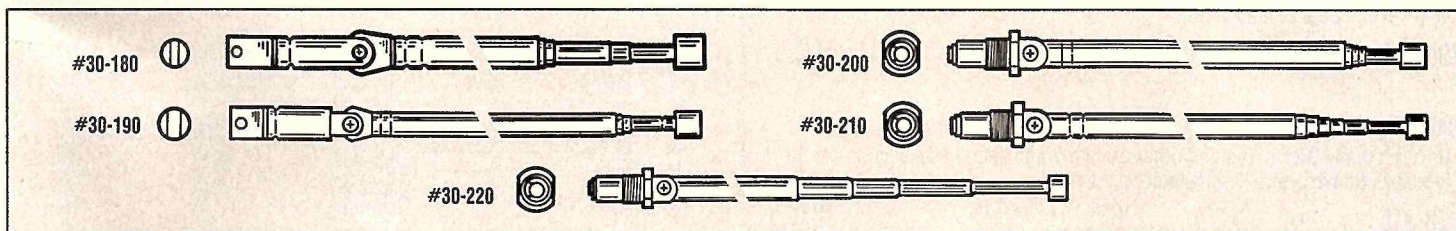
Order #	Sections	Extended Length	Collapsed Length	Base Diameter	Price (1-9)	Price (10-up)
30-240	4	21 1/4"	6 3/4"	5/22"	\$2.75	\$2.50
30-330	6	46 1/2"	9 1/4"	3/8"	2.95	2.50
30-340	5	39 3/8"	10 3/8"	1/4"	3.05	2.60

Replacement Antennas for Sony and Panasonic

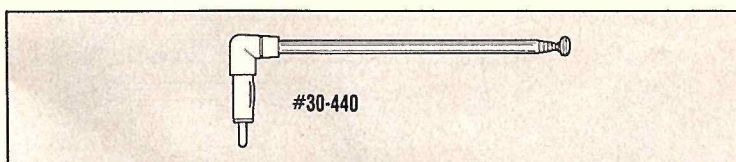


Order #	Manufacturer #	Sections	Extended Length	Collapsed Length	Base Diameter	Price (1-9)	Price (10-up)
30-385	XEARR345CAN	3	40 3/4"	15 1/4"	5/16"	\$2.00	\$1.75
30-390	XEAQCR228FAN	6	42"	10 1/2"	5/16"	2.10	1.85
30-395	XEAQCR228DAY	4	34 1/2"	10 1/4"	5/16"	2.10	1.85
30-460	1-501-166-00	5	30 1/4"	8 1/4"	3/16" threaded	2.05	1.65
30-470	1-501-072-00	5	34"	9 3/4"	3/16" threaded	2.05	1.65
30-480	1-501-204-00	5	51"	13 1/4"	5/16"	2.25	1.95
30-500	1-501-167-00	7	34 1/2"	7 1/4"	3/16" threaded	2.95	2.50

Replacement Antennas for Sanyo



Order #	Sanyo #	Sections	Extended Length	Collapsed Length	Base Diameter	Price (1-9)	Price (10-up)
30-180	4-2449-70250	6	28"	6 1/4"	5/16"	\$2.30	\$2.00
30-190	4-2449-70210	6	36"	9 3/4"	5/16"	2.10	1.75
30-200	4-244T-03100	5	31 1/2"	8"	3/8" threaded	2.30	2.00
30-210	4-244R-18500	7	31 1/2"	6 1/2"	3/8" threaded	2.50	2.20
30-220	4-2445-01101	5	38"	10"	3/8" threaded	2.50	2.20



Scanner Antenna

- Excellent for use on car radio repair bench ■ Right angle, Motorola plug
- Six section ■ 6 1/4" collapsed ■ 30" extended

#30-440 \$3¹⁵ (1-9) \$2⁹⁵ (10-up)



ANTENNAS

GE Type Antenna

■ Replacement antenna for GE ET83X3, GE EU83X3, Admiral, JC Penney, Midland, Kmart and various private brand TV sets ■ Four section ■ 9 1/2" collapsed ■ 28" extended

#30-100 \$2⁴⁹₍₁₋₉₎ \$2⁹⁵_(10-up)

Panasonic Type Antenna

■ Replacement antenna for Sanyo, Panasonic, Sears, Quasar, Midland, JC Penney and various private brand TV sets ■ Four section ■ 12" collapsed ■ 40" extended

#30-020 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)

Panasonic Type Dual Antenna

■ Replacement antenna for Panasonic, RCA, JC Penney, Quasar and various private brand TV sets ■ Five section ■ 9 1/2" collapsed ■ 39" extended ■ 21" lead length

#30-060 \$6⁰⁰₍₁₋₉₎ \$5⁷⁹_(10-up)

Panasonic Type Antenna

■ Popular replacement for Panasonic (Matsushita) made televisions ■ Five section ■ 7" collapsed ■ 40" extended

#30-270 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)

Panasonic Type Swivel Rod Antenna

■ Replacement antenna for RCA, Sony, Hitachi, Panasonic and various private brand AM/FM radios and micro TVs ■ Six section ■ 7 1/2" collapsed ■ 38" extended

#30-040 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)

Panasonic/Teknika Type Antenna

■ Replacement antenna used in Panasonic (Matsushita) made TVs ■ Seven section ■ 6 1/2" collapsed ■ 40" extended

#30-280 \$3⁹⁰₍₁₋₉₎ \$3⁵⁰_(10-up)

Original RCA Antenna

■ Replaces RCA #1468169-4 and #105251 ■ Six section ■ 9 1/2" collapsed ■ 46 1/2" extended ■ 6" lead length

#30-570 \$1⁹⁵₍₁₋₉₎ \$1⁷⁵_(10-up)

Sanyo Type Antenna

■ Used on many Sanyo TVs and other private brand sets ■ Five section ■ Replaces Sanyo J-9604A-BND ■ 5" lead length

#30-310 \$8⁹⁵₍₁₋₉₎ \$8⁵⁰_(10-up)

Sony Type Antenna

■ Replacement for Sony 1-501-151-XX, 1-501-152-00, 1-501-156-XX ■ Ten section ■ 7" collapsed ■ 43 1/2" extended

#30-010 \$5³⁰₍₁₋₉₎ \$4⁸⁰_(10-up)

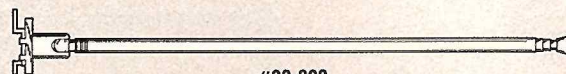
Sony Trinitron Type Antenna

■ Replacement antenna for Sony AN-16, Trinitron TV sets ■ Complete dual antenna with preattached twin leads ■ Eight section ■ 6 3/4" collapsed ■ 42" extended ■ 21" lead length

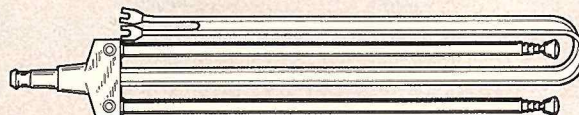
#30-050 \$7⁸⁰₍₁₋₉₎ \$7⁵⁰_(10-up)



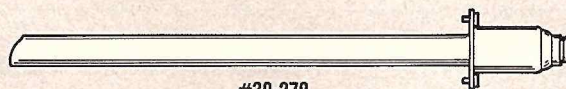
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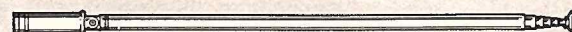
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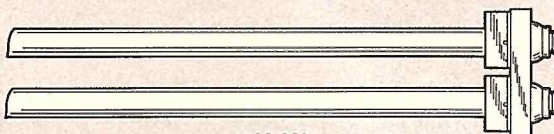
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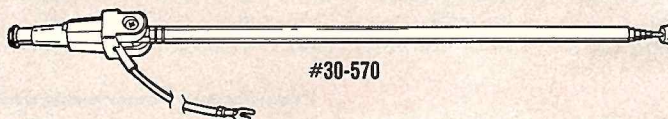
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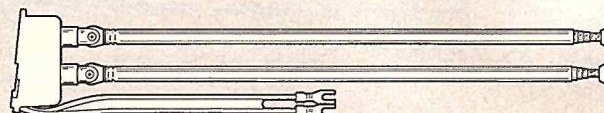
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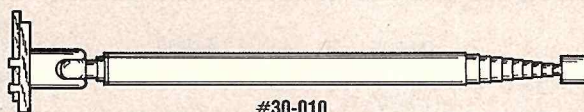
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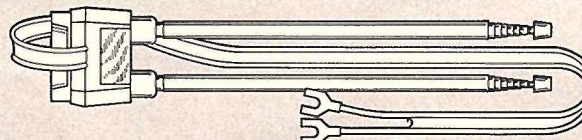
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#30-310



#30-010

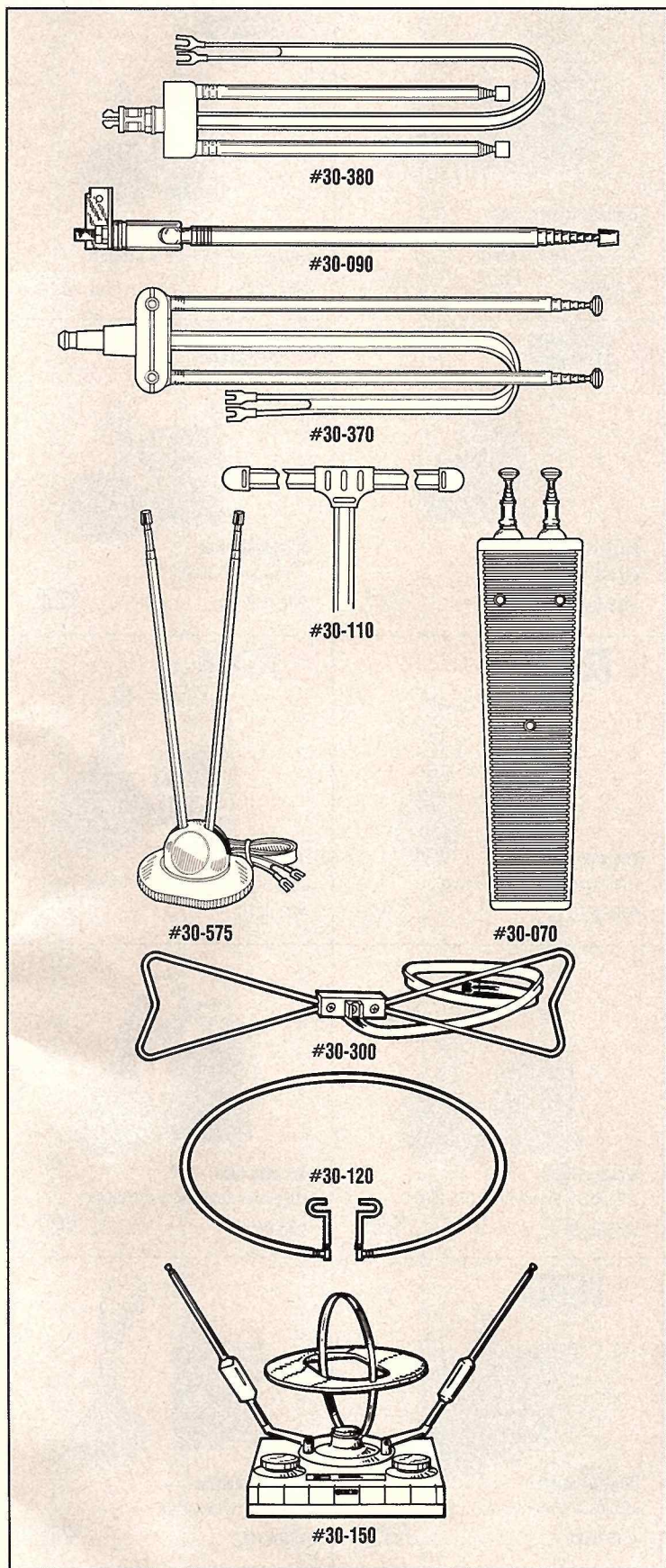


#30-050



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Sony Type Dual Antenna

- Replacement for Sony #AN-18 ■ Eight section ■ 7" collapsed ■ 43" extended
- 17" lead length

#30-380 \$6²⁵₍₁₋₉₎ \$5⁷⁵_(10-up)

Sony Type Antenna

- Replacement antenna for Sony TV-92U, Sharp and various private brand TV sets
- Eight section ■ 7" collapsed ■ 43" extended

#30-090 \$2⁹⁵₍₁₋₉₎ \$2⁵⁰_(10-up)

Zenith Type Antenna

- Replacement antenna for Zenith and various private brand TV sets
- Complete dual antenna with preattached twin lead ■ Six section
- 8 1/2" collapsed ■ 41 1/2" extended ■ 13 1/2" lead length

#30-370 \$10⁷⁵₍₁₋₉₎ \$9⁷⁵_(10-up)

Indoor FM Dipole

- Same antenna supplied with most stereo receivers

#30-110 90¢₍₁₋₉₎ 80¢_(10-up)

Rabbit Ear Antenna

- VHF and FM antenna with 300ohm twin lead and spade terminals ■ Three section antennas telescope to 30" each

#30-575 \$4²⁵₍₁₋₉₎ \$3⁷⁰_(10-up)

Universal Behind the Set

- Dual VHF antenna ■ Screw mounts to rear of TV set ■ Five section
- Telescoping rods extend 38" ■ 13 1/2" lead length

#30-070 \$3⁹⁵₍₁₋₉₎ \$3⁵⁰_(10-up)

UHF Antennas

Bowtie

- Replacement UHF bowtie antenna ■ 26" lead length

#30-300 95¢₍₁₋₉₎ 85¢_(10-up)

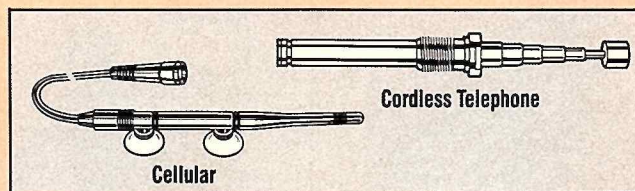
Loop

#30-120 55¢₍₁₋₉₎ 45¢_(10-up)

Indoor TV Antenna

- Attractive styling, works for UHF, VHF, FM ■ Two 40" dipoles and 7" loop greatly improves reception ■ Fine tuning adjustments

#30-150 \$17⁵⁰₍₁₋₄₎ \$15⁵⁰_(5-up)

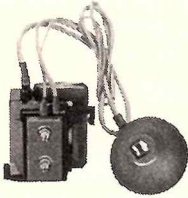
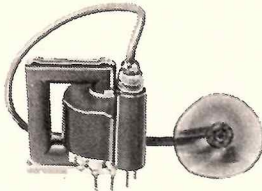
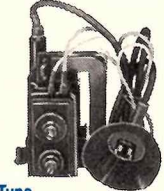
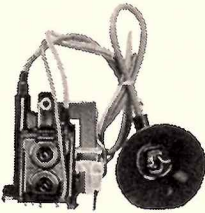
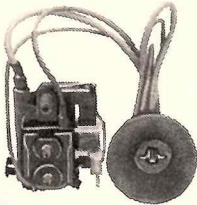
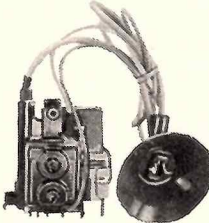
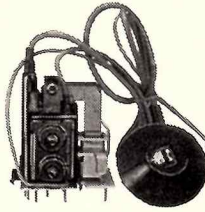
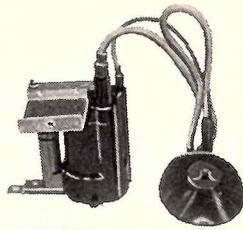


SEE PAGE 150 FOR CELLULAR/CB ANTENNAS

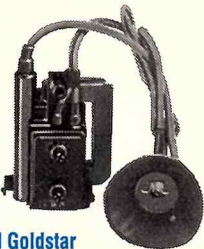
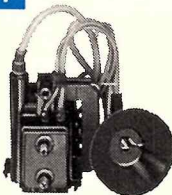
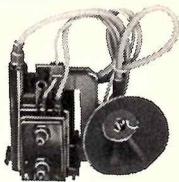
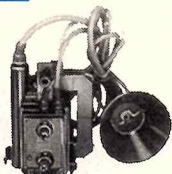
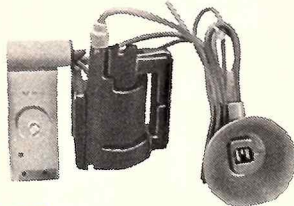
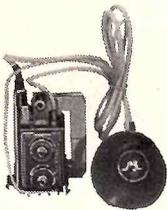
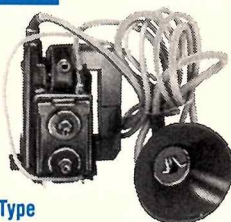
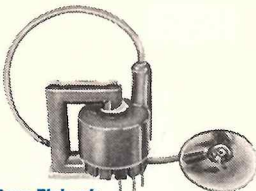
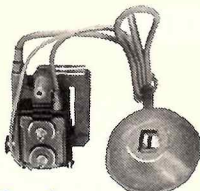
SEE PAGE 156 FOR CORDLESS TELEPHONE ANTENNAS



FLYBACKS

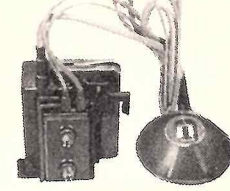
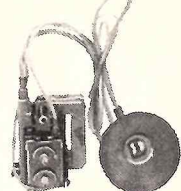
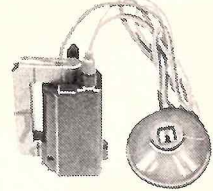
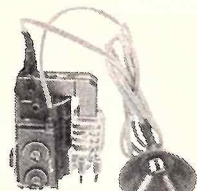
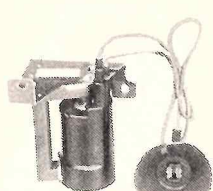
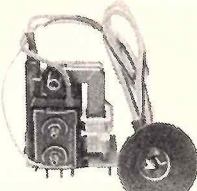
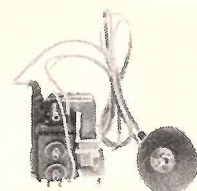
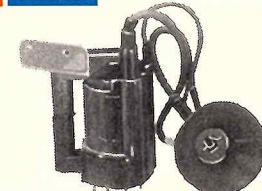
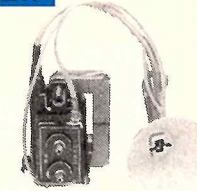
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 NEW Broksonic Type ■ Replaces Broksonic #3220019 #33-0585.....\$32⁰⁰_(ea.)	 NEW Broksonic Type ■ Replaces Broksonic #3720002 #33-0595.....\$29⁹⁵_(ea.)	 NEW Original Daewoo ■ Daewoo #DCF-2052 #33-0620.....\$32⁰⁰_(ea.)	 NEW Original Daewoo ■ Daewoo #DCF-2077 #33-0625.....\$32⁰⁰_(ea.)
 NEW Original Daewoo ■ Daewoo #TBF-125SE #33-0710.....\$11⁵⁰_(ea.)	 NEW Emerson Type ■ Replaces Emerson #FB-175 #33-0630.....\$34⁰⁰_(ea.)	 NEW Emerson Type ■ Replaces Emerson #43214002 #33-0270.....\$49⁰⁰_(ea.)	 NEW Emerson Type ■ Replaces Emerson #43214003 #33-0275.....\$39⁰⁰_(ea.)
 Emerson Type ■ Replaces Emerson #432140031 #33-0465.....\$38⁰⁰_(ea.)	 Emerson Type ■ Replaces Emerson #43214008 #33-0280.....\$39⁰⁰_(ea.)	 Emerson Type ■ Replaces Emerson #432140081 #33-0470.....\$28⁰⁰_(ea.)	 Emerson Type ■ Replaces Emerson #432200111 #33-0460.....\$45⁰⁰_(ea.)
 NEW Original Goldstar ■ Goldstar #154-016A #33-0510.....\$28⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-016B #33-0515.....\$28⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-030A #33-0520.....\$32⁰⁰_(ea.)	 Original Goldstar ■ Goldstar #154-040A #33-0160.....\$26⁵⁰_(ea.)

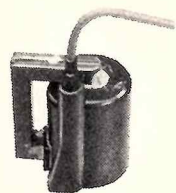


 NEW Original Goldstar ■ Goldstar #154-033A #33-0525.....\$32⁰⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-041A #33-0165.....\$29⁹⁵_(ea.)	 NEW Original Goldstar ■ Goldstar #154-056A #33-0170.....\$26⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-067D #33-0530.....\$28⁵⁰_(ea.)
 NEW Original Goldstar ■ Goldstar #154-074A #33-0175.....\$26⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-074E #33-0535.....\$28⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-074N #33-0540.....\$28⁵⁰_(ea.)	 NEW Original Goldstar ■ Goldstar #154-074R #33-0545.....\$28⁵⁰_(ea.)
 NEW Original Goldstar ■ Goldstar #154-138N #33-0550.....\$32⁰⁰_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2432944 #33-0285.....\$84⁹⁵_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2433171 #33-0555.....\$38⁰⁰_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2434131 #33-0490.....\$38⁰⁰_(ea.)
 NEW Hitachi Type ■ Replaces Hitachi #2434391 #33-0455.....\$44⁰⁰_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2434401 #33-0290.....\$57⁰⁰_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2434481 #33-0565.....\$42⁰⁰_(ea.)	 NEW Hitachi Type ■ Replaces Hitachi #2434651 #33-0570.....\$74⁰⁰_(ea.)
 NEW IBM Type Flyback ■ Replacement flyback for IBM 5151 monochrome monitor ■ 6 pin version ■ Replaces IBM #74730102538 #33-985.....\$36⁰⁵₍₁₋₃₎.....\$31⁹⁵_(4-up)	 NEW Original Kawasho ■ Kawasho #101-206-001-03 #33-0795.....\$32⁰⁰_(ea.)	 NEW Original Kawasho Order # Mfg. # Price 33-0295 101-214-004-03 \$32.00 33-0300 101-214-005-03 32.00 33-0305 101-214-009-03 32.00	 NEW Original Kawasho ■ Kawasho #101-214-006-03 #33-0800.....\$32⁰⁰_(ea.)



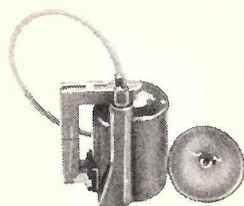
FLYBACKS

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 Panasonic Type ■ Replaces Panasonic #TLF-14417F #33-0325.....\$69⁹⁵_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14421F #33-0730.....\$59⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14423F #33-0330.....\$53⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14503F/F2 #33-0335.....\$53⁰⁰_(ea.)
 Panasonic Type ■ Replaces Panasonic #TLF-14515F #33-0340.....\$53⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14530F #33-0345.....\$53⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14561F #33-0740.....\$69⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14617F #33-0350.....\$48⁰⁰_(ea.)
 Panasonic Type ■ Replaces Panasonic #TLF-14634F #33-0760.....\$56⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14706F1 #33-0765.....\$36⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14712F #33-0745.....\$56⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-14801F1 #33-0770.....\$59⁵⁰_(ea.)
 Panasonic Type ■ Replaces Panasonic #TLF-15526F #33-0755.....\$57⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-69907 #33-0780.....\$32⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF-69908 #33-0785.....\$32⁰⁰_(ea.)	 Panasonic Type ■ Replaces Panasonic #TLF70007A #33-0355.....\$32⁰⁰_(ea.)



Panasonic Type

- Replaces Panasonic #TLF80802-1
- #33-0360.....\$15⁰⁰_(ea.)



Panasonic Type

- Replaces Panasonic #TLF80843-1
- #33-0365.....\$15⁰⁰_(ea.)



Original Sampo

- Sampo #FB-1042
- #33-0635.....\$42⁰⁰_(ea.)



Original Sampo

- Sampo #FBT-1053
- #33-0370.....\$25⁰⁰_(ea.)



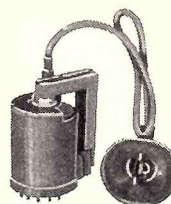
Original Samsung

- Samsung #TLF-70018
- #33-0790.....\$29⁹⁵_(ea.)



Original Samsung

- Samsung #FBC-0535EL
- #33-0640.....\$13⁹⁵_(ea.)



Original Samsung

- Samsung #FBC1215AL
- #33-0180.....\$10⁵⁰_(ea.)



Original Samsung

Order #	Mfg. #	Price
33-0185	FBC1245CL	\$10.50
33-0190	FBH1245AL	10.50



Original Samsung

- Samsung #FBT-1053
- #33-0645.....\$26⁹⁵_(ea.)



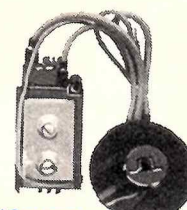
Original Samsung

Order #	Mfg. #	Price
33-0195	FCC1415AL	\$27.00
33-0200	FCC1415JL/DL	27.00



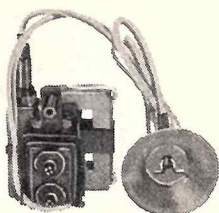
Original Samsung

- Samsung #FCC-1415GL
- #33-0650.....\$23⁹⁵_(ea.)



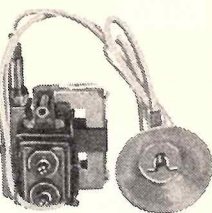
Original Samsung

- Samsung #FCC2015LL
- #33-0205.....\$27⁰⁰_(ea.)



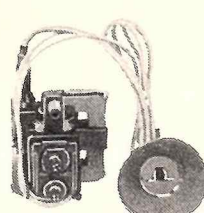
Original Samsung

- Samsung #FCK1415
- #33-0215.....\$27⁰⁰_(ea.)



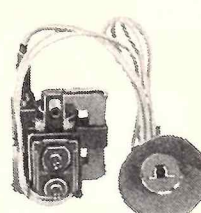
Original Samsung

- Samsung #FCM2015AL
- #33-0220.....\$30⁵⁰_(ea.)



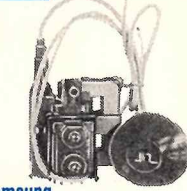
Original Samsung

- Samsung #FCM2015BL
- #33-0225.....\$27⁰⁰_(ea.)



Original Samsung

- Samsung #FCM2015KE
- #33-0230.....\$27⁰⁰_(ea.)



Original Samsung

- Samsung #FCM-1415AL
- #33-0665.....\$32⁰⁰_(ea.)



Original Samsung

- Samsung #FCK-1412EOF
- #33-0210.....\$24⁰⁰_(ea.)



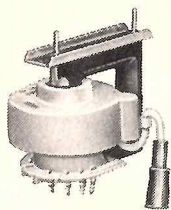
Original Samsung

- Samsung #FCR-2615AL
- #33-0680.....\$38⁰⁰_(ea.)



Original Samsung

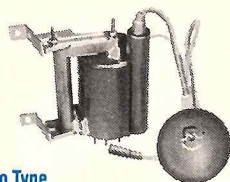
- Samsung #FMD-1235BL
- #33-0235.....\$10⁵⁰_(ea.)



Sanyo Type

■ Replaces Sanyo #F0241

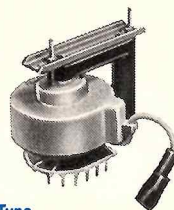
#33-995.....\$1670 (1-3).....\$1550 (4-up)



Sanyo Type

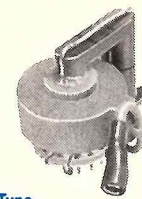
■ Replaces Sanyo #F0243

#33-0380.....\$1750 (ea.)



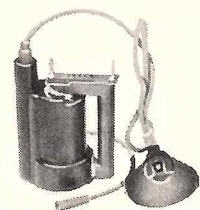
Sanyo Type

Order #	Mfg. #	Price
33-935	F0192	\$17.95
33-955	F0239	14.90



Sanyo Type

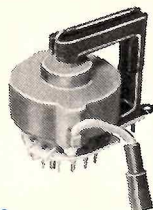
Order #	Mfg. #	Price
33-0375	F0240	\$28.00
33-0385	F1108	17.50



Sanyo Type

■ Replaces Sanyo #F1119

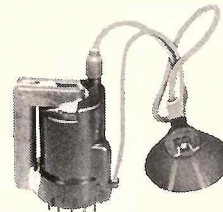
#33-0390.....\$1795 (ea.)



Sanyo Type

■ Replaces Sanyo #F1123

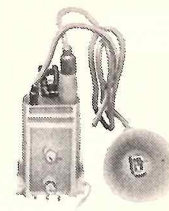
#33-940.....\$1625 (1-3).....\$1475 (4-up)



Sanyo/Sears Type

■ Replaces Sanyo #F1133

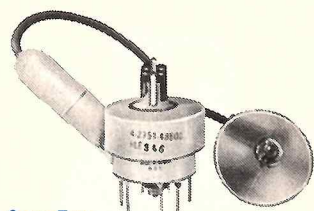
#33-0395.....\$3800 (ea.)



Sanyo/Sears Type

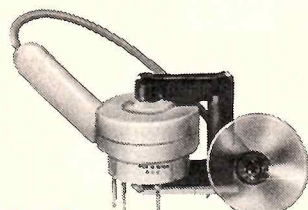
■ Replaces Sanyo #F1177

#33-0400.....\$3800 (ea.)



Sanyo Type

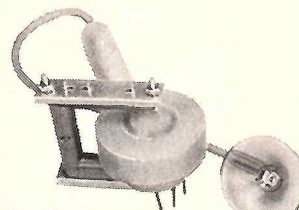
Order #	Mfg. #	Price
33-870	4-2751-48500	\$10.95
33-875	4-2751-48600	9.90



Sanyo Type

■ Replaces Sanyo #4-2751-60108

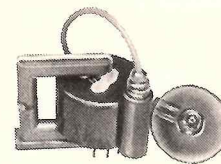
#33-755.....\$1150 (1-3).....\$1050 (4-up)



Sharp Type

■ Replaces Sharp #8FT-024-D

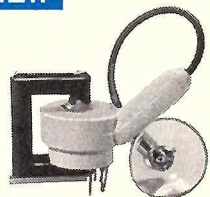
#33-0405.....\$995 (ea.)



Sharp Type

■ Replaces Sharp #8FT-043B

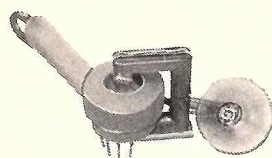
#33-0410.....\$995 (ea.)



Sharp Type

■ Replaces Sharp #8FT-046

#33-0600.....\$995 (ea.)



Sharp Type

■ Replaces Sharp #8FT-063A

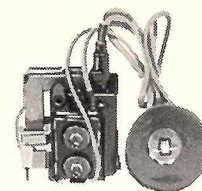
#33-0415.....\$995 (ea.)



Sharp Type

■ Replaces Sharp #RTRNF0011 CEZZ

#33-0685.....\$3400 (ea.)



Sharp Type

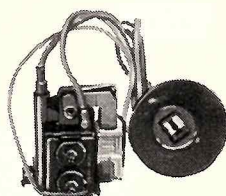
Order #	Mfg. #	Price
33-0240	RTRNF0014 PEZZ	\$48.00
33-0250	RTRNF0016 PEZZ	48.00



Sharp Type

Order #	Mfg. #	Price
*33-975	RTRNF0009	\$25.95
33-990	RTRNF0003	25.95

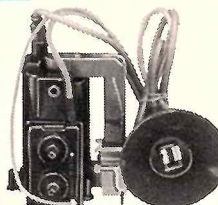
*Note: Not compatible with Montgomery Ward's J-series chassis



Sharp Type

■ Replaces Sharp #RTRNF0015 PEZZ

#33-0245.....\$4200 (ea.)



Sharp Type

■ Replaces Sharp #RTRNF0036 CEZZ

#33-0690.....\$4200 (ea.)

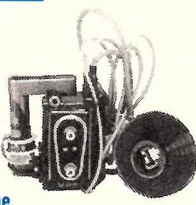
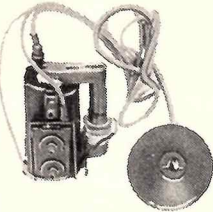
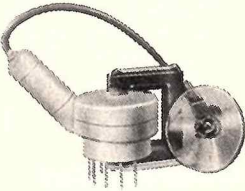


Sharp Type

■ Replaces Sharp #RTRNF0059 PEZZ

#33-0255.....\$4700 (ea.)



NEW  Sharp Type ■ Replaces Sharp #RTRNF1307-CEZZ #33-0695.....\$29⁹⁵_(ea.)	NEW  Sharp Type ■ Replaces Sharp #RTRNF1372-CEZZ #33-0700.....\$29⁹⁵_(ea.)	 Sharp Type ■ Replaces Sharp #RTRNF1406-CEZZ #33-0420.....\$34⁹⁵_(ea.)	 Sharp Type ■ Replaces Sharp #RTRNF1477-CEZZ #33-0425.....\$53⁰⁰_(ea.)
 Sharp Type ■ Replaces Sharp #RTRNF1601-CEZZ #33-0430.....\$53⁰⁰_(ea.)	 Sharp Type ■ Replaces Sharp #1588 #33-0485.....\$34⁰⁰_(ea.)	NEW  Sharp Type ■ Replaces Sharp #RTRNF1452-CEZZ #33-0500.....\$40⁰⁰_(ea.)	 Sharp and Sampo Type ■ Replaces Sharp #RTRNF2037TAZZ ■ Sampo #8FT046 #33-655.....\$15⁵⁰₍₁₋₃₎.....\$13⁹⁵_(4-up)
NEW  Original Tatung ■ Tatung #TFB-121 #33-0720.....\$42⁰⁰_(ea.)	NEW  Original Tatung ■ Tatung #TFB-174 #33-0725.....\$42⁰⁰_(ea.)	NEW  Toshiba Type ■ Replaces Toshiba #AZ33-5008 #33-0435.....\$32⁰⁰_(ea.)	NEW  Toshiba Type ■ Replaces Toshiba #AZ33-5174 #33-0605.....\$38⁰⁰_(ea.)

Focus Dividers

A. Replacement Focus Divider for Sanyo and Sears

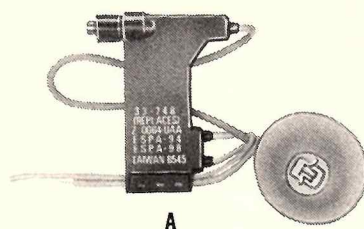
- Replaces Sanyo ESPA-98-F1, #Z0064
- Also replaces #ESPA 94

#33-748.....\$12⁹⁵₍₁₋₉₎.....\$10⁹⁵_(10-up)

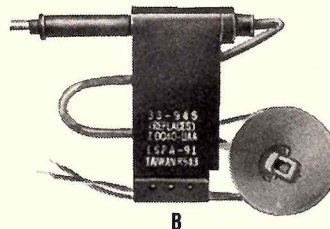
B. Replacement Focus Divider for Sanyo and Sears

- Replaces Sanyo #ESPA-91, #Z0040

#33-945.....\$13⁴⁰₍₁₋₉₎.....\$12⁴⁰_(10-up)



A



B

CRT Brighteners for Flyback Powered Filament

- These brighteners work on any TV with flyback powered CRT filament
- Instruction sheet included ■ For any TV, 11"-25" with flyback powered filament
- Not Shown

#33-593.....\$19⁹⁵_(ea.)

■ Same as model #33-593, but isolated

#33-595.....\$21⁹⁵_(ea.)

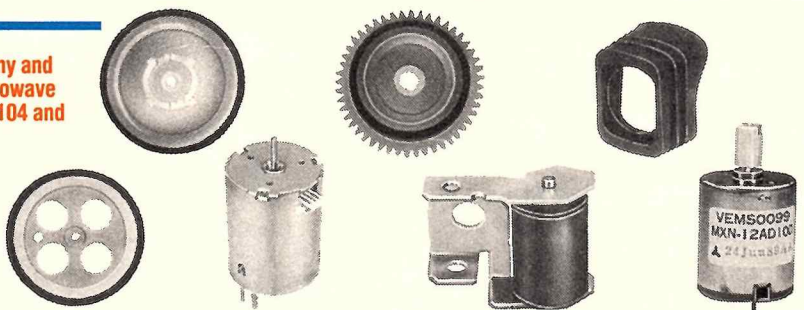
Original Replacement Parts

MCM now stocks many original Panasonic, Sanyo/Fisher, Sharp, Sony and Mitsubishi replacement parts for VCRs, camcorders, audio and microwave ovens. For more information on these popular items, refer to pages 104 and 105.

MITSUBISHI
Panasonic

ZENITH
SONY

SHARP



IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



POWER CORDS

Radars Detector Power Cord

■ Replacement power cord for Escort. Cobra 3000, 3100, 4000, 4100 and Whistler Q2000 ■ Fused (3A) lighter plug to right angle connector with molded strain relief ■ Positive at tip ■ Connector dimensions: 5.5mm (O.D.) x 2.5mm (I.D.) ■ 6' length
#23-210 \$2¹⁵₍₁₋₉₎ \$1⁸⁵_(10-up)

Radars Detector Power Cord

■ Replacement power cord for Maxon RD1, RD2A, RD3, RD21, RD25, and Bel radar detectors ■ Fused (3A) lighter plug to right angle connector with molded strain relief ■ Positive at tip ■ Connector dimensions: 5.5mm (O.D.) x 2.1mm (I.D.) ■ 6' length
#23-215 \$2¹⁵₍₁₋₉₎ \$1⁸⁵_(10-up)

Radars Detector Power Cord

■ Replacement power cord for Cobra RD-3168, 3170, 2110, 3120 ■ Fused (1A) lighter plug to right angle connector with molded strain relief ■ Positive at tip ■ Connector dimensions: 3.5mm (O.D.) x 1.25mm (I.D.) ■ 6' length
#23-235 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)

DC Power Cord

■ Used to power a portable VCR from a cigarette lighter jack ■ Fused 3A lighter plug ■ Connector dimensions: 6.3mm (O.D.) x 3mm (I.D.) ■ 6' length
#23-175 \$2⁷⁵₍₁₋₉₎ \$2³⁵_(10-up)

12 Volt Power Cord

■ Comes complete with lighter plug ■ 22 gauge wire ■ Black jacket with polarity markings ■ 15' length
#27-112 79¢₍₁₋₉₎ 59¢_(10-up)

12 Volt Fused Power Cord

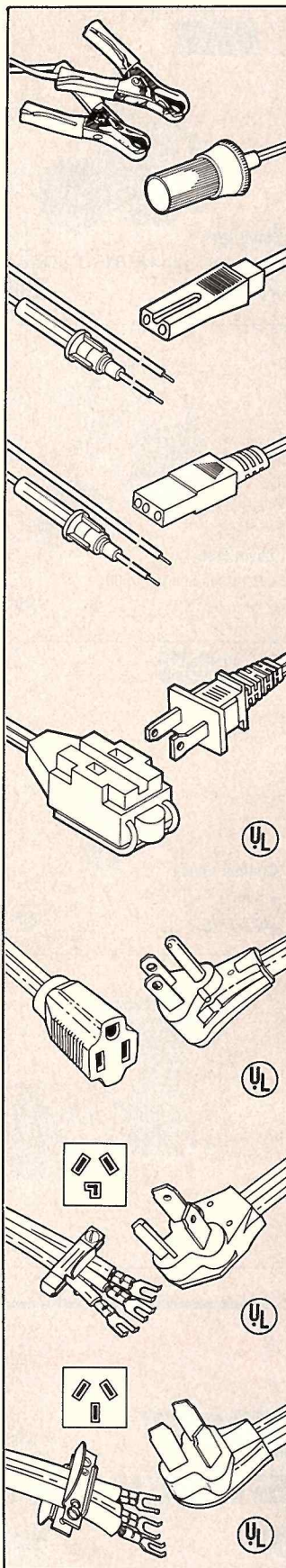
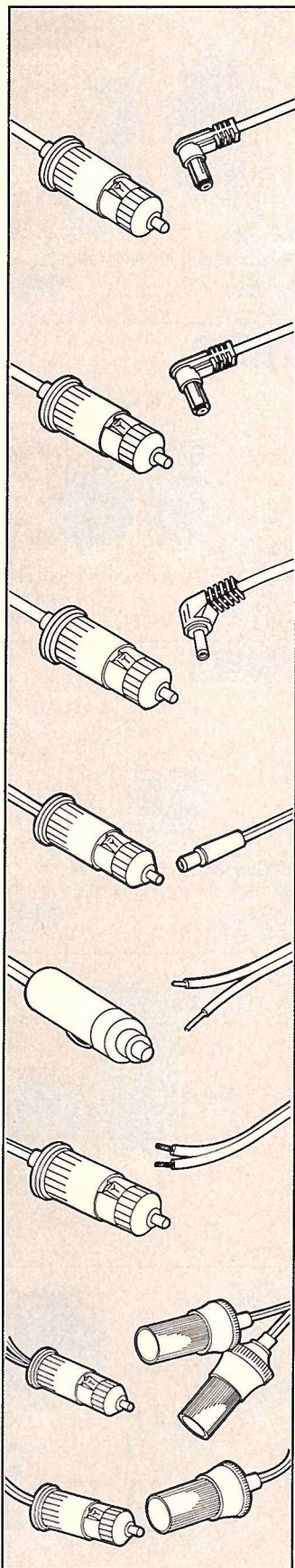
■ Comes complete with 5A fused lighter plug to stripped and tinned 18 gauge wire ■ Black jacket with polarity markings ■ 12' length
#23-240 \$2⁷⁹₍₁₋₉₎ \$2⁵⁹_(10-up)

Cigarette Lighter "Y"

■ Fused lighter plug with 5A fuse to two lighter jacks ■ Allows use of two 12VDC devices simultaneously ■ 6' length
#23-165 \$4⁵⁵₍₁₋₉₎ \$4⁰⁵_(10-up)

Cigarette Lighter Extension Cord

■ Fused lighter plug with 5A fuse to lighter jack ■ 18 gauge ■ 2 conductor ■ 12' length
#23-160 \$3⁸⁵₍₁₋₉₎ \$3³⁰_(10-up)



DC Power Jack

■ Lighter jack to two battery clips ■ Allows hook-up of DC powered accessories with a lighter plug to vehicles without a cigarette lighter ■ 10' length
#23-170 \$2⁴⁵₍₁₋₉₎ \$2²⁵_(10-up)

2 Pin Power Cord with In-Line Fuse

■ Color-coded leads ■ In-line 3A fuse ■ 2 pin female plug one end, tinned wire other end ■ Low voltage DC ■ 20 gauge ■ 5' length
#27-625 95¢₍₁₋₉₎ 75¢_(10-up)

3 Pin Power Cord with In-Line Fuse

■ 3 pin female plug on one end, tinned wire on other end ■ In-line 3A fuse ■ Color-coded leads ■ Polarized ■ Low voltage DC ■ 20 gauge ■ 5' length
#27-630 \$1⁰⁰₍₁₋₉₎ 90¢_(10-up)

LEVITON Extension Cords

■ 16 gauge power cord with 3 receptacle cube tap and safety shield ■ 125V, 13A ■ Available in 6' and 12' lengths
#64-145 (6') \$1⁹⁵₍₁₋₉₎ \$1⁸⁰_(10-up)
#64-150 (12') \$2⁹⁰₍₁₋₉₎ \$2⁷⁵_(10-up)

LEVITON Air Conditioner Extension Cord

■ 3 conductor extension cord for heavy duty use ■ 14 gauge extension cord rated at 15A ■ Grounded right angle plug ■ 9' length
#64-140 \$5⁹⁵_(ea.)

LEVITON Replacement Dryer Cord

■ Replaces worn or broken dryer cords ■ 10 gauge grounded cord with right angle plug ■ Rated at 250V, 30A ■ 6' length
#64-130 \$7⁹⁵_(ea.)

LEVITON Replacement Range Cord

■ Replaces worn or broken oven and range cords ■ 6 gauge cord with 8 gauge ground ■ Right angle plug ■ Rated at 250V, 50A ■ 6' length
#64-135 \$10⁹⁵_(ea.)



Replacement Cord

- 18 gauge ■ SPT-1 ■ 2 conductor wire
- 6' length

#23-095 75¢₍₁₋₉₎ 66¢_(10-up)

Replacement Cord

- 18 gauge ■ SPT-2 ■ 2 conductor wire
- 6' length

#23-230 \$1.49₍₁₋₉₎ \$1.29_(10-up)

Replacement Power Cord

- Power cord that will replace most 3 prong plug cords ■ 18 gauge
- 6' length

#23-150 ... \$2.15₍₁₋₉₎ ... \$1.95₍₁₀₋₄₉₎ .. \$1.50_(50-up)

Panasonic Type Power Cord

- Fits most small Panasonic radio and cassette units ■ 18 gauge ■ 6' length

#23-020
90¢₍₁₋₉₎ 85¢₍₁₀₋₄₉₎ 75¢_(50-up)

Popular Non-Polarized Technics/ Panasonic Type Power Cord

- Used for many Technics/Panasonic series audio components ■ Also used in many portable electronic devices
- 18 gauge ■ 6' length ■ Replaces Matsushita #SJA170

#23-190 ... \$2.10₍₁₋₉₎ ... \$1.80₍₁₀₋₄₉₎ .. \$1.65_(50-up)

Popular Polarized Technics/ Panasonic Type Power Cord

- Used for many Technics/Panasonic stereo amplifiers ■ 18 gauge ■ 6' length ■ Replaces Matsushita #SJA172-1

#23-195 ... \$2.30₍₁₋₉₎ ... \$2.00₍₁₀₋₄₉₎ .. \$1.85_(50-up)

Sony Type Power Cord

- 2 conductor ■ Fits most small Sony products ■ 18 gauge ■ 6' length
- Replaces Sony #1-534-558-XX

#23-040 .. \$1.05₍₁₋₉₎ .. 95¢₍₁₀₋₄₉₎ .. 85¢_(50-up)

Sony Type Power Cord

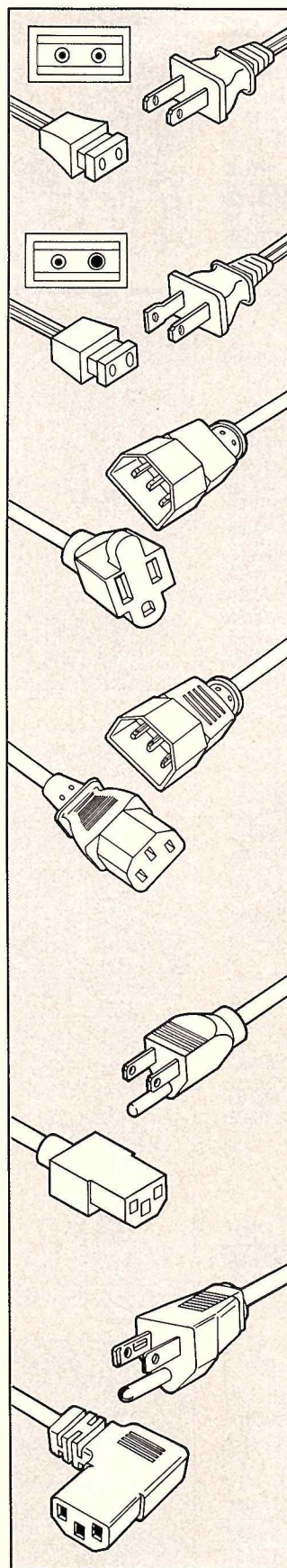
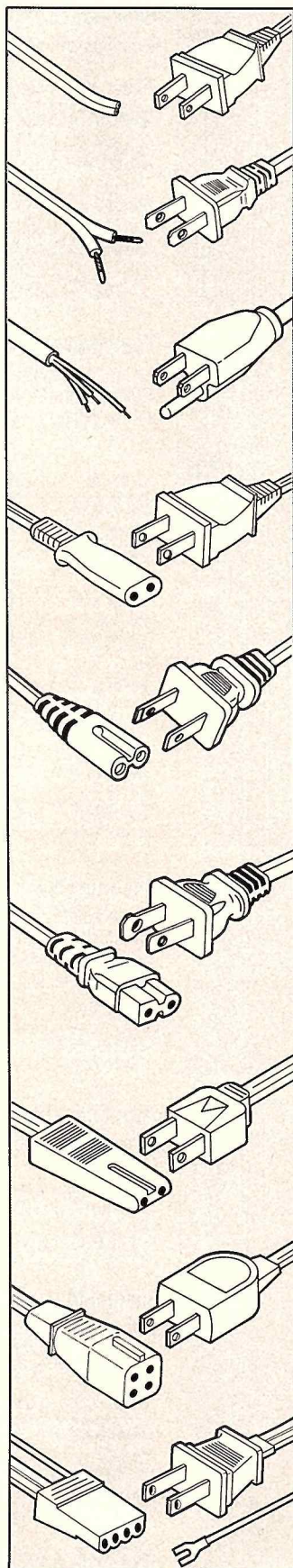
- Non-polarized ■ 4 pin end connector
- Used for many Sony TVs and TC series tape decks ■ Heavy 18 gauge cable ■ 6' length ■ Replaces Sony #1-551-006-XX

#23-050 ... \$1.90₍₁₋₉₎ ... \$1.50₍₁₀₋₄₉₎ .. \$1.35_(50-up)

BSR Type Power Cord

- Fits most models of BSR turntables
- Heavy 18 gauge wire ■ Molded plug with 7' cord ■ Ground wire included

#23-140
69¢₍₁₋₉₎ 60¢₍₁₀₋₄₉₎ 55¢_(50-up)



6' Non-Polarized Cheater Cord

- Fits many famous make sets
- 18 gauge

#23-090
90¢₍₁₋₉₎ 80¢₍₁₀₋₉₉₎ 75¢_(100-up)

6' Polarized Cheater Cord

- Fits many famous make sets
- 18 gauge

#23-080
90¢₍₁₋₉₎ 80¢₍₁₀₋₉₉₎ 70¢_(100-up)

AC Adaptor for IBM PC Monitor

- Allows use of monitor other than IBM with IBM PC or XT ■ Available in 1', 6' and 12' lengths

#83-0075 (1') \$3.85₍₁₋₉₎ \$3.25_(10-up)

#83-895 (6') \$4.95₍₁₋₉₎ \$4.20_(10-up)

#83-890 (12') \$6.90₍₁₋₉₎ \$6.20_(10-up)

IBM Type Monitor AC Extension Cord

- Allows user to extend the length of IBM monitor cables ■ Available in 1' and 6' lengths

#83-0090 (1')
\$3.95₍₁₋₉₎ \$3.25₍₁₀₋₄₉₎ \$2.75_(50-up)

#83-0020 (6')
\$4.80₍₁₋₉₎ \$4.05_(10-up)

Computer Power Cord

- Power cord used by many computer and test equipment manufacturers
- 18 gauge ■ Available in 3', 6' and 10' lengths

#23-145 (3')
\$2.20₍₁₋₉₎ \$2.00₍₁₀₋₄₉₎ \$1.80_(50-up)

#23-130 (6')
\$2.95₍₁₋₉₎ \$2.50₍₁₀₋₄₉₎ \$2.25_(50-up)

#23-200 (10')
\$4.00₍₁₋₉₎ \$3.55₍₁₀₋₄₉₎ \$3.10_(50-up)

Right Angle Power Cord

- Widely used in test equipment and computers ■ 18 gauge ■ Available in 3' and 6' lengths

#23-180 (3')
\$3.35₍₁₋₉₎ \$3.00₍₁₀₋₄₉₎ \$2.65_(50-up)

#23-185 (6')
\$3.85₍₁₋₉₎ \$3.45₍₁₀₋₄₉₎ \$2.90_(50-up)

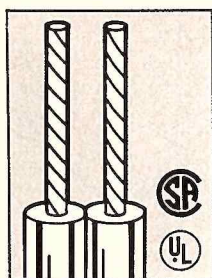


WIRE AND CABLE

Standard Lamp Wire

■ 2 conductor: One bare copper, one tinned copper
■ 18 gauge, stranded ■ 1 conductor ribbed for polarity identification ■ 300V suggested working voltage ■ Brown jacket ■ SPT-1 ■ Made in USA

Order #	Length	Price
24-570	50'	\$4.89
24-575	100'	10.70
24-580	500'	39.35

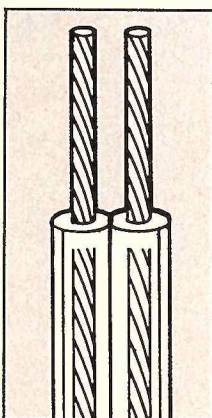


Speaker Wire

Standard Speaker Wire

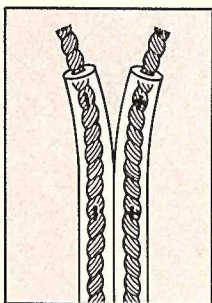
■ 2 conductor clear insulation, polarity identified by wire color ■ Made in USA

Order #	Gauge	Length	Price
24-310	24	50'	\$1.75
24-320	24	500'	13.25
24-330	24	1000'	25.55
24-340	18	50'	4.05
24-350	18	500'	30.65
24-360	18	1000'	53.75
24-370	16	50'	5.75
24-380	16	500'	54.60
24-390	16	1000'	76.95
24-110	12	50'	17.25
24-120	12	100'	32.60
24-130	12	500'	115.50



"Sound King" Speaker Wire

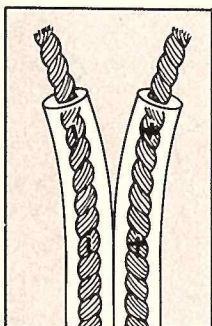
■ Finely stranded oxygen free bare copper conductors cabled in a ropelay design to increase the conductive surface, reduce skin effect and insure maximum flexibility ■ Superflex extra soft, flexible 60°C clear PVC insulation ■ Extremely low capacitance, resistance and inductance of these cables transfer music signals from amplifier to speakers with high clarity and definition ■ Surface printed for identification and polarity ■ Available in 30' and 50' spools ■ Made in USA



16 Gauge

■ 105 strands of 36 gauge copper wire

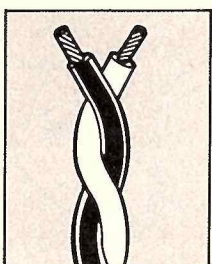
Order #	Length	Price
24-1055	30'	\$10.85
24-1060	50'	16.60



12 Gauge

■ 259 strands of 36 gauge copper wire

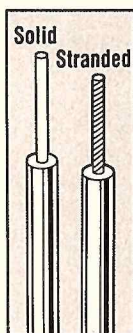
Order #	Length	Price
24-1065	30'	\$21.00
24-1070	50'	32.00



Twisted Pair Wire

■ Used in control systems, burglar alarms, intercoms, sound and equipment interconnect applications ■ Twisted and color coded cable with PVC insulation ■ 18 gauge ■ Color coded black and white ■ 300V working voltage

Order #	Length	(1-9)	Price (10-up)
24-910	50'	\$7.95	\$7.50
24-913	100'	16.50	15.50



Hook-up Wire

■ Solid or stranded ■ 50' roll

Order #	Type	Color	Gauge	Price (1-9)	(10-up)
24-535	Solid	Black	22	\$1.25	\$1.05
24-530	Solid	White	22	1.25	1.05
24-550	Stranded	Black	22	1.25	1.05
24-545	Stranded	White	22	1.25	1.05
24-610	Solid	Black	18	2.55	2.35
24-620	Solid	White	18	2.55	2.35
24-615	Stranded	White	18	2.55	2.35
24-740	Stranded	Red	12	7.75	7.20
24-745	Stranded	Black	12	8.35	7.75

UL Approved Stranded Hook-up Wire

■ High quality stranded hook-up wire with PVC insulation
■ Tinned copper wire ■ 300V working voltage
■ Construction: UL 1007, CSA TR-64 ■ 50' length

Order #	Gauge	Color	Price (1-9)	(10-up)
24-908	24	Black	\$4.15	\$3.90
24-905	24	Red	4.15	3.90
24-900	24	White	4.45	4.20
24-903	24	Green	4.15	3.90
24-898	22	Black	4.65	4.30
24-895	22	Red	4.50	4.20
24-890	22	White	4.65	4.30
24-893	22	Green	4.65	4.30
24-878	18	Black	5.55	5.30
24-875	18	Red	5.55	5.30
24-870	18	White	5.55	5.30
24-873	18	Green	5.55	5.30
24-868	16	Black	7.50	7.25
24-865	16	Red	7.50	7.25
24-860	16	White	8.05	7.80
24-863	16	Green	7.50	7.25



Superior Quality Microphone Cable

■ 2 conductor with braided shield ■ PVC jacket ■ For use with low impedance microphones ■ 22 gauge conductors
■ Nominal capacitance 31 pF per foot ■ .235 O.D. ■ Made in USA ■ Available in 100' and 500' rolls

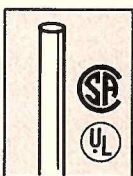
Order #	Length	Price
24-441	100'	\$31.10
24-440	500'	118.30



Bare Copper Wire

■ Commonly used as grounding wire

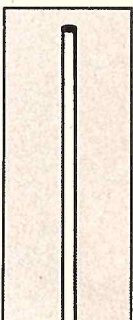
Order #	Gauge	Length	Price
24-930	14	40'	\$4.15
24-928	12	50'	6.15
24-925	10	50'	10.20



Enamel Magnet Wire

■ Used for making custom coils, transformers, etc.
■ Copper wire with enamel insulation ■ Temperature range: -30° to 80°C ■ Sold in 1/4 lb. spools

Order #	Gauge	Approximate Length	Price
24-825	30	770'	\$5.25
24-828	28	500'	4.60
24-830	26	300'	4.95
24-833	24	200'	4.40
24-835	22	125'	4.45
24-838	20	75'	4.70
24-840	18	50'	4.75

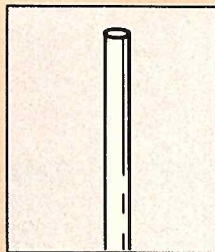




Bare Nickel Chromium Wire

- Used in electric heating elements
- Thermal conductive wire with excellent resistance characteristics
- Temperature range: Up to 1680°F
- Composition: 60% nickel, 26% chromium, 14% iron
- Sold in 1/4 lb. spools

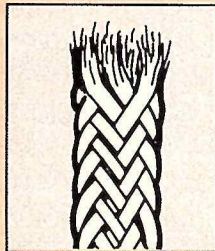
Order #	Gauge	Length	Price
24-975	20	75'	\$11.00
24-970	18	47'	12.00



Flat Copper Braid

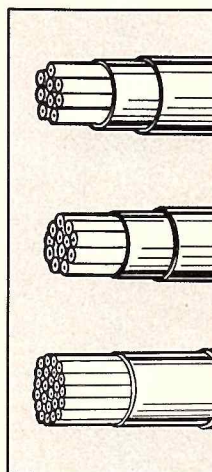
- Used for shielding, grounding straps and bonding
- Made of woven tinned copper
- 95% minimum coverage
- 1/4" wide
- 25' length

#24-950 \$15⁶⁰ (ea.)



Computer Cable

- Multiconductor, 24 gauge stranded wire
- PVC type insulation
- Complete shielding reduces RF interference



9 Conductor

Order #	Length	Price	
		(1-4)	(5-up)
83-0030	25'	\$7.85	\$6.95
83-0035	100'	30.75	28.95
83-0330	500'	115.00	104.95

12 Conductor

Order #	Length	Price	
		(1-4)	(5-up)
83-450	50'	\$17.35	\$15.95
83-455	100'	32.80	29.95
83-0360	500'	133.95	116.00

25 Conductor

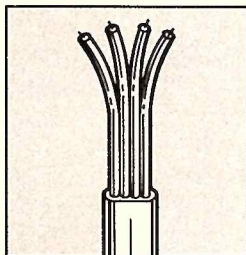
Order #	Length	Price	
		(1-4)	(5-up)
83-470	50'	\$29.95	\$25.50
83-475	100'	57.25	50.95
83-0365	500'	245.00	225.00

Telephone and Data Transmission Cable

- Color coded stranded wire
- Custom design your own modular extension cords to any length
- Silver PVC jacket
- 24 gauge

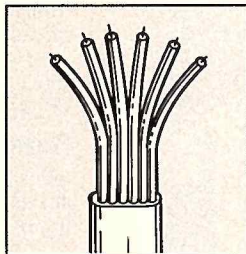
4 Conductor

Order #	Length	Price	
		(1-9)	(10-up)
36-460	100'	\$7.85	\$7.50
36-465	500'	31.50	28.10



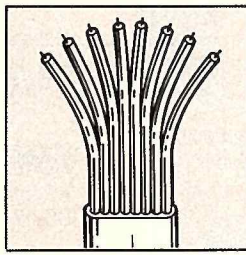
6 Conductor

Order #	Length	Price	
		(1-9)	(10-up)
36-615	100'	\$9.30	\$8.15
36-620	500'	40.25	36.60



8 Conductor

Order #	Length	Price	
		(1-9)	(10-up)
36-625	100'	\$12.75	\$11.50

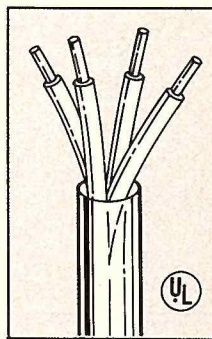
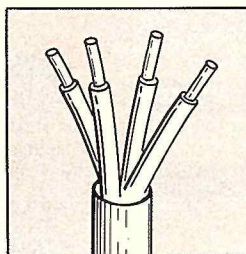


FOR MODULAR CONNECTORS AND CRIMP TOOLS SEE PAGE 159

Telephone Station Cable

- 4 conductor
- 22 gauge solid wire
- Color coded: Black, red, green and yellow
- PVC/polyethylene jackets

Order #	Length	Price	
		(1-9)	(10-up)
24-055	50'	\$4.50	\$3.95
24-060	100'	8.05	7.50
24-050	500'	29.95	27.50



Plenum Station Cable

- Resists high temperatures, aging, cracking and chemicals; and maintains its excellent mechanical and dielectric properties
- Plenum cable can be used without conduit in ducts and ceiling plenum areas, so it can cut installation costs by 50%
- 4 conductor, 24 gauge solid wire
- Color coded: Black, red, green and yellow
- Opaque jacket made of fluoropolymer resin
- Meets UL article #800-3(d) of the National Electric Code

100' Spool
#24-1030 \$29⁹⁵ (ea.) \$25⁹⁵ (2-up)

500' Spool
#24-1035 \$110⁵⁰ (ea.) \$99⁵⁰ (2-up)

Data Transmission Cable

- 4 conductor
- 24 gauge solid wire
- Color coded: Black, red, green and yellow
- Foil shield
- Tin drain wire
- White jacket
- Excellent for data communication use

100' Length
#24-630 \$16⁹⁵ (1-9) \$15⁵⁰ (10-up)

500' Length
#24-635 \$74²⁵ (1-9) \$70⁹⁵ (10-up)

Plenum Data Transmission Cable

- Plenum cable is designed to be used without conduit in ducts and ceiling plenum areas
- Resists high temperatures, aging, cracking, chemicals and maintains its excellent mechanical and dielectric properties
- Shielded 4 conductor wire with drain
- 22 gauge stranded wire
- Color coded: Red, blue, black, and clear
- Opaque jacket made of fluoropolymer resin
- Meets UL article #725 of the National Electric Code

100' Spool
#24-1000 \$45⁹⁵ (ea.) \$40⁹⁵ (2-up)

500' Spool
#24-1005 \$185⁹⁵ (ea.) \$175⁹⁵ (2-up)

IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



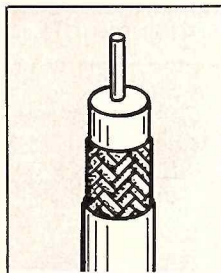
Coax Cables

RG-59U Copper Braid

■ 22 gauge solid copper-covered steel weld ■ Foam insulation ■ 80% copper braid shield ■ .240 O.D. nominal ■ 75ohm nominal impedance

100' Spool
#24-155 \$14⁹⁵_(ea.) \$14⁵⁰_(2-up)

500' Spool
#24-150 \$50³⁰_(ea.) \$46²⁰_(2-up)

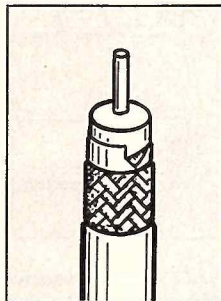


RG-59U Aluminum Braid

■ 22 gauge solid copper-covered steel weld ■ Foam insulation ■ 100% aluminum mylar shield ■ 40% aluminum braid ■ .242 O.D. nominal ■ 75ohm nominal impedance

100' Spool
#24-165 \$10⁵⁰_(ea.) \$8⁹⁵_(2-up)

500' Spool
#24-160 \$43⁵⁰_(ea.) \$39⁵⁰_(2-up)

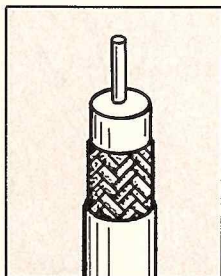


RG-58U Copper Braid Coax

■ 20 gauge solid copper-covered steel weld ■ .116 foam insulation ■ 80% copper braid ■ 50ohm nominal impedance

100' Spool
#24-145 \$13⁵⁰_(ea.) \$12⁹⁵_(2-up)

500' Spool
#24-140 \$49⁰⁰_(ea.) \$46⁰⁵_(2-up)

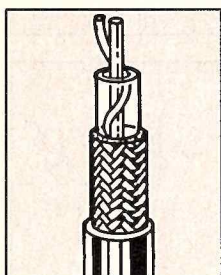


RG-62 Coax Cable

■ 22 gauge solid copper-covered steel weld ■ Semi-solid polyethylene insulation ■ 80% copper shield ■ .240 O.D. nominal ■ 93ohm nominal impedance

100' Spool
#24-980 \$15⁹⁵_(ea.) \$14⁹⁵_(2-up)

500' Spool
#24-985 \$69⁹⁵_(ea.) \$65⁹⁵_(2-up)

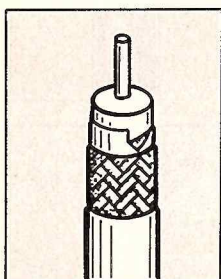


RG-6U Coax Cable

■ 18 gauge solid copper-covered steel weld ■ Foam insulation ■ 100% aluminum mylar shield ■ 40% aluminum braid ■ .280" O.D. nominal ■ 75ohm nominal impedance

100' Spool
#24-560 \$18⁸⁰_(ea.) \$16⁵⁰_(2-up)

500' Spool
#24-565 \$62⁵⁰_(ea.) \$58⁹⁵_(2-up)



KLEIN TOOLS Fish-Tape Reel

■ 50' flat steel fish-tape on winder reel ■ For pulling wire through conduit or walls ■ 50' x 1/8" x .060" fish-tape on a 8 1/2" reel for convenient storage

#22-880 \$32⁵⁰_(ea.)



Plenum Coax Cable

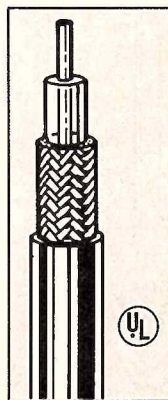
Plenum cable can be used without conduit in ducts and ceiling plenum areas, and it can cut installation costs by 50%. It resists high temperatures, aging, cracking, chemicals and maintains its excellent mechanical and dielectric properties.

Plenum RG-58U

■ 20 gauge solid copper-covered steel weld ■ .112 fluoropolymer resin insulation ■ 95% tinned copper braid ■ .166 nominal O.D. ■ 53ohm nominal impedance ■ Meets UL article #725-2(b) of the National Electric Code

100' Spool
#24-1020 \$65⁵⁰_(ea.) \$55⁵⁰_(2-up)

500' Spool
#24-1025 \$250⁵⁰_(ea.) \$230⁵⁰_(2-up)

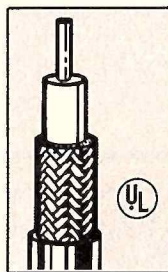


Plenum RG-59U

■ 22 gauge solid copper-covered steel weld ■ .135 fluoropolymer resin insulation ■ 95% tinned copper braid ■ .206 nominal O.D. ■ 75ohm nominal impedance ■ Meets UL article #725-2(b) of the National Electric Code

100' Spool
#24-1010 \$60⁹⁵_(ea.) \$50⁹⁵_(2-up)

500' Spool
#24-1015 \$245⁹⁵_(ea.) \$225⁵⁰_(2-up)

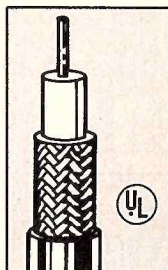


Plenum RG-62A/U

■ 22 gauge solid copper-covered steel weld ■ Fluoropolymer resin insulation ■ .210 O.D. nominal ■ 95% tinned copper braid ■ 93ohm nominal impedance ■ Meets UL article #725-2(b) of the National Electric Code

100' Spool
#24-990 \$60⁹⁵_(ea.) \$50⁹⁵_(2-up)

500' Spool
#24-995 \$245⁹⁵_(ea.) \$225⁵⁰_(2-up)



Rotary Coax Cable Stripper

■ Quickly strips RG-58U and RG-59U cable ■ Comes with an attached hex key wrench for fine tuning the cutting blades ■ Drop resistant plastic housing

#22-980 \$13⁷⁵_(ea.)

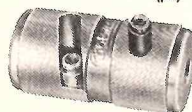
Replacement Blades (Three pairs per package)

#22-985 \$3¹⁰_(1-9 pkgs.) \$2⁹⁵_(10 pkgs. -up)



Replacement Blades

#22-485 \$7²⁵_(pr.)



Cablematic Coax Cable Stripper

■ Prepares cable for installation of "F" connectors on RG-59 size cable ■ Fast and easy to use

#22-480 \$16⁵⁰_(ea.)

Cablematic "F" Connector Insertion Tool

■ Designed for inserting "F" connectors into cables ■ Thread "F" connector onto tool, which acts as a handle for better leverage ■ Made of hardened steel ■ 5" length

#22-1030 \$12⁹⁵₍₁₋₃₎ \$11⁹⁵_(4-up)



SEE PAGE 36 FOR COAX CRIMP TOOLS



Wall Plates and Wall Plate Type Tap-Offs

- All wall plates are ivory colored plastic

Wall Plate with 3/8" Hole and Hex Inset

- Mounting screws ■ Can be used with #27-475 (page 164) "F" type female splice (F-81)
- Minimum five

#33-770 29¢₍₅₋₉₎ 25¢₍₁₀₋₄₉₎ 23¢_(50-up)

Wall Plate Blank

- Has two 3/8" hole and hex insets on back side
- Minimum five

#33-775 39¢₍₅₋₉₎ 35¢₍₁₀₋₄₉₎ 28¢_(50-up)

UHF/VHF/FM Tapoff

- Single 300ohm output with "no-strip" piercing screws from 75ohm bridge type through-line ■ Dual isolations 17/23dB, clip one or two leads for higher isolation

#33-780 \$2⁵⁰₍₁₋₉₎ \$2¹⁵₍₁₀₋₄₉₎ \$1⁷⁵_(50-up)

300ohm Wall Plate

- Single 300ohm with "no-strip" piercing screws

#33-0085 \$1³⁵₍₁₋₉₎ \$1⁰⁵_(10-up)

UHF/VHF/FM Tapoff

- Single 75ohm output from 75ohm bridge type through-line ■ Dual isolations 12/17dB, clip one or two leads for higher isolation

#33-785 \$1⁹⁵₍₁₋₉₎ \$1⁶⁹₍₁₀₋₄₉₎ \$1³⁹_(50-up)

Flush Mounting 75ohm TV Outlet

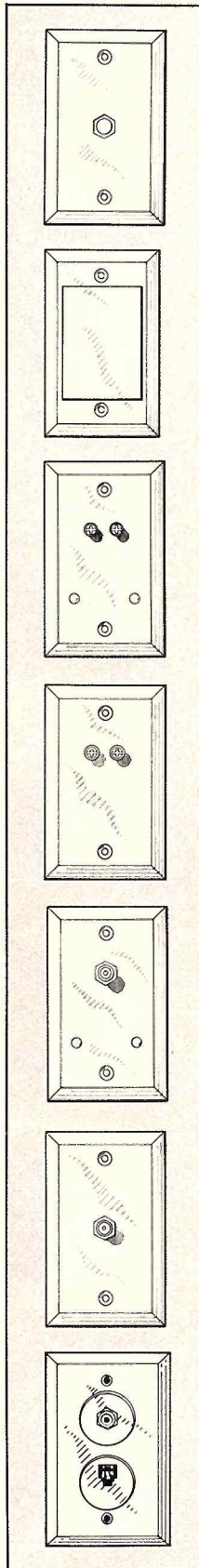
- Input and output connection are "F" type jacks
- Minimum five

#33-020 80¢₍₅₋₉₎ 70¢₍₁₀₋₄₉₎ 65¢_(50-up)

CATV/Telephone Wall Plate

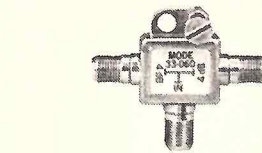
- Combines telephone and cable TV into one wall plate ■ USOC RJ-11 type telephone jack ■ F-81 CATV connector

#36-650 \$2⁴⁰₍₁₋₉₎ \$2¹⁰₍₁₀₋₄₉₎ \$1⁹⁵_(50-up)



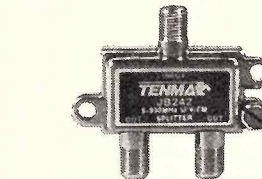
Weatherproof Zinc Diecast Splitters

- High quality zinc diecast that features anti-corrosion plating ■ Power passive
- Precision threads ■ UHF/VHF/FM ■ 5-900MHz



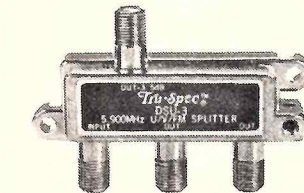
Mini Two-Way

#33-060 \$1⁷⁵₍₁₋₉₎ \$1⁵⁵₍₁₀₋₉₉₎ \$1²⁵_(100-up)



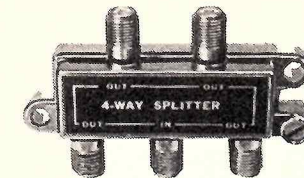
Gold Plated

#33-0050 \$2¹⁰₍₁₋₉₎ \$1⁸⁵₍₁₀₋₉₉₎ \$1⁷⁰_(100-up)



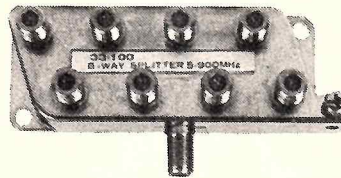
Two-Way

#33-070 \$1⁵⁰₍₁₋₉₎ 95¢_(10-up)



Gold Plated

#33-0055 \$2¹⁰₍₁₋₉₎ \$1⁸⁵₍₁₀₋₉₉₎ \$1⁷⁰_(100-up)



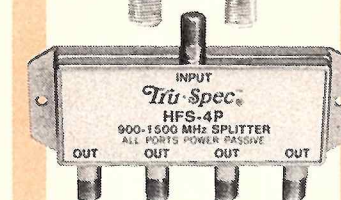
Three-Way

#33-080 \$2⁰⁵₍₁₋₉₎ \$1⁸⁰₍₁₀₋₉₉₎ \$1⁴⁰_(100-up)



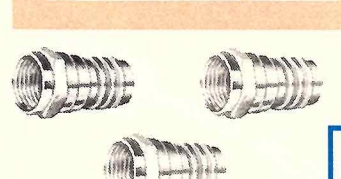
Gold Plated

#33-0060 \$2⁸⁵₍₁₋₉₎ \$2⁷⁰₍₁₀₋₉₉₎ \$2⁴⁰_(100-up)



Four-Way

#33-090 \$1⁹⁵₍₁₋₉₎ \$1⁷⁰₍₁₀₋₉₉₎ \$1³⁰_(100-up)



Eight-Way

#33-100 \$5⁹⁵₍₁₋₉₎ \$5⁷⁰₍₁₀₋₉₉₎ \$5⁴⁰_(100-up)

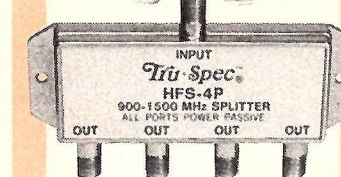
High Frequency Splitters

- Heavy-duty diecast design
- Power passive ■ Low thru-loss
- 900MHz-1500MHz ■ 20dB port to port isolation ■ For use with satellite systems and other high frequency applications



Two-Way

#33-0035 \$7⁹⁵₍₁₋₉₎ \$7⁵⁰_(10-up)



Four-Way

#33-0040 \$12⁵⁰₍₁₋₉₎ \$11⁹⁵_(10-up)

SEE PAGE 164 FOR
"F" TYPE CONNECTORS



Fast and accurate
order processing!



U/V Directional Taps

- Provides high isolation of reflected signals ■ Maintains constant 75ohm impedance on trunk line ■ Tap at 17dB

One Output Zinc Diecast

#33-310

\$2.75 (1-9) \$2.50 (10-49) \$2.25 (50-up)

Two Outputs

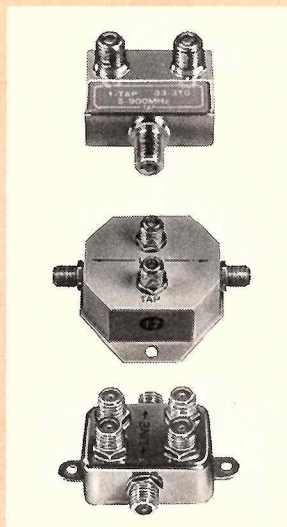
#33-320

\$2.80 (1-9) \$2.50 (10-49) \$2.25 (50-up)

Four Outputs

#33-330

\$3.95 (1-9) \$3.60 (10-49) \$3.05 (50-up)



CATV FM Tapoff

- Zinc diecast mounting ■ Provides connection to stereo tuner for MTV and other FM broadcasts usually available on cable TV lines

#33-350

\$3.25 (1-9) \$2.85 (10-99) \$2.50 (100-up)

CATV FM Trap

- FM band rejection filter ■ 20-30dB attenuation across FM band with minimum insertion loss

#33-340

\$3.30 (1-9) \$2.90 (10-99) \$2.60 (100-up)

Grounding Block

- Zinc diecast ■ Mounting screws included ■ Minimum five

#33-470

55¢ (5-9) 45¢ (10-99) 40¢ (100-up)

TV Interference Filters

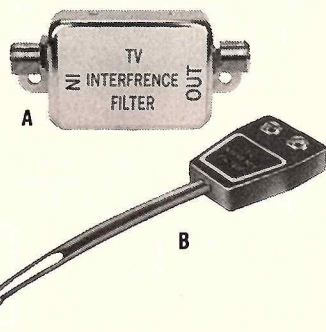
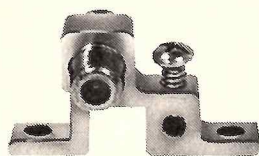
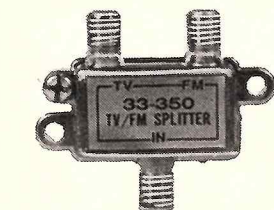
- Used in cable or antenna systems to remove interference affecting picture quality ■ -20dB attenuation

A. #33-0070 (75ohm)

\$2.00 (1-9) \$1.75 (10-99) \$1.50 (100-up)

B. #33-600 (300ohm)

\$1.00 (1-9) 85¢ (10-99) 70¢ (100-up)



Mini Arrestor Ground Block

- Helps protect microprocessor-based equipment from static or lightning damage ■ High-quality gas spark arrestor design ■ Allows easy hook-up of grounding wire ■ Galvanized and sealed housing for outdoor use

#33-0130 \$3.35 (1-9) \$2.80 (10-up)

Arrestor Ground Block

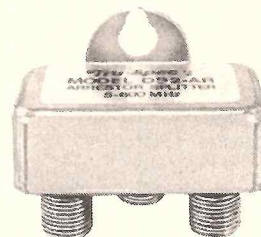
- Helps protect TVs, VCRs, and other microprocessor-based equipment from static or lightning damage on coaxial cables ■ Uses high quality gas spark arrestor ■ Allows easy hook-up of grounding wire ■ Weatherized housing for outdoor application

#33-0015 \$5.15 (1-9) \$4.55 (10-up)



Arrestor/Splitter

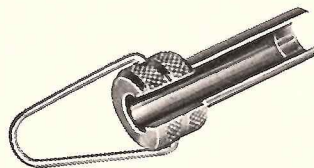
- Two-way splitter with high quality gas spark arrestor ■ Helps protect TVs, VCRs and other microprocessor-based equipment from static or lightning damage ■ High quality zinc diecast housing with anti-corrosion plating ■ Allows easy hook-up of grounding wire ■ Bandwidth: 5-600MHz ■ Will not pass DC



CATV Security Tool

- Precision machined, high quality security tool for connecting and disconnecting cables protected by a security sleeve ■ Long shaft fits all types of sleeves

#33-0025 \$5.40 (ea.)



Security Sleeve

- Heavy-duty stamped metal sleeve ■ 1 1/8" long for true anti-theft security ■ Adds an extra degree of security ■ Used by many cable companies to prevent customers from tampering with equipment ■ Minimum ten

#33-0030 40¢ (10-49) 30¢ (50-up)



Security Shields

- Maintains security in cable systems ■ Shield must be broken to access connection ■ No tools needed for installation ■ Minimum five

#33-0440 50¢ (5-9) 40¢ (10-up)



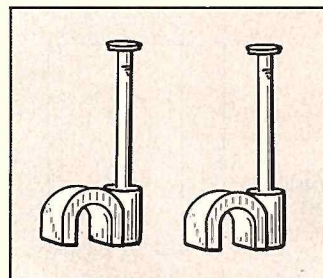
Single Cable Clips for RG-59 Cable

- Makes running cable neat and easy ■ High impact plastic ■ Pre-installed plated steel nails ■ Drive into wood, plastic, brick, mortar or concrete block ■ 100 per package

#33-580 White

#33-585 Black

\$2.75 (1-9 pkgs.) \$2.25 (10 pkgs.-up)





Matching Transformers

Outdoor

- Weather resistant, molded plastic construction
- Supplied with rubber boot
- Minimum five

#33-040 \$1.75 (5-9) \$1.40 (10-99) \$1.20 (100-up)

Indoor

- UHF/VHF/FM 75-300ohm matching transformer
- "F" type input, 300ohm twin lead output
- Minimum five

#33-050 69¢ (5-9) 50¢ (10-99) 41¢ (100-up)

Indoor

- Three capacitor 300-75ohm matching transformer
- Black PVC case
- "No strip" piercing screws on 300ohm input
- 500VDC minimum voltage isolation

#33-030 \$1.50 (1-9) \$1.25 (10-99) 95¢ (100-up)

Push-On Balun

- Quick connect for "F" fittings with impedance matching transformer
- Minimum five

#33-010 65¢ (5-9) 45¢ (10-up)

3.5mm Balun

- 3.5mm plug to screw terminals
- 75-300ohm impedance matching transformer
- Ideal for hook-up of portable TV to outside antenna

#33-0065 \$1.25 (1-9) \$1.10 (10-49) 99¢ (50-up)

Three-Way UHF/VHF/FM Separators

75ohm

#33-200

\$1.75 (1-9) \$1.45 (10-49) \$1.20 (50-up)

75ohm

#33-0135

\$2.10 (1-9) \$1.80 (10-49) \$1.45 (50-up)

300ohm

#33-210

\$1.45 (1-9) \$1.25 (10-49) 95¢ (50-up)

UHF/VHF Separators and Baluns

75ohm Input

#33-220

\$2.60 (1-9) \$2.30 (10-49) \$1.90 (50-up)

300ohm Input

#33-230

\$2.45 (1-9) \$2.15 (10-49) \$1.75 (50-up)

75ohm Input— Two 75ohm Outputs

#33-0095

\$2.60 (1-9) \$2.30 (10-49) \$1.90 (50-up)

75ohm Input

- "F" jumper cable with attached separator
- 6' length

#33-0075 \$3.85 (1-9) \$3.25 (10-up)

VCR Hook-Up Cable

- Same RF cable supplied with most VCRs
- 5' RG-59 cable with push-on "F" connector input
- Output switchable between 75ohm and 300ohm

#32-1155 \$2.95 (1-9) \$2.50 (10-up)

UHF/VHF Signal Combiners

- Combines UHF and VHF inputs
- For use on TVs that have a single input

#33-0080

- 300ohm UHF and 75ohm VHF inputs
- 75ohm "F" type output

\$2.75 (1-9) \$2.25 (10-up)

#33-0105

- 75ohm VHF and UHF inputs
- 75ohm "F" type output

\$3.10 (1-9) \$2.60 (10-up)

#33-0110

- 300ohm VHF and UHF inputs
- 75ohm "F" type output

\$3.10 (1-9) \$2.60 (10-up)





UHF/VHF/FM Couplers

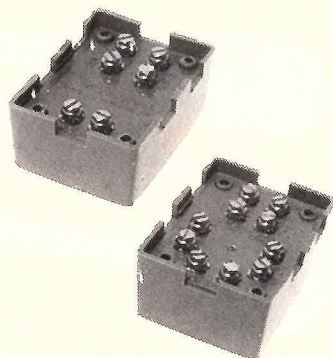
■ Rugged plastic construction ■ Spiked screws for twin lead hook-up without stripping

Two Set #33-240

\$1⁹⁰₍₁₋₉₎ \$1⁷⁰₍₁₀₋₄₉₎ \$1³⁵_(50-up)

Four Set #33-250

\$2¹⁰₍₁₋₉₎ \$1⁸⁰₍₁₀₋₄₉₎ \$1⁵⁰_(50-up)



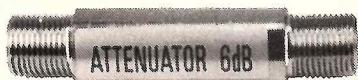
Attenuators

75ohm In-Line

■ 6dB attenuation ■ 5-900MHz frequency

#33-560

\$1⁷⁵₍₁₋₉₎ \$1⁶⁰₍₁₀₋₄₉₎ \$1⁴⁵_(50-up)



Fixed Mini-Types

■ Nickel plated solid brass body ■ Monolithic ceramic printed circuit board, ensuring rugged construction ■ 5% accuracy ■ 22 gauge steel center pin ■ Small; 1 3/8" size ■ "F" type female to male ■ 75ohm ■ Three attenuators to choose from ■ Sorry—no mixing of values for quantity pricing

3dB 6dB #33-790 #33-795

12dB
#33-810 \$2²⁵₍₁₋₉₎ \$2⁰⁰₍₁₀₋₄₉₎ \$1⁴⁰_(50-up)



Game Switches

■ For permanent hook-up of TV game to TV set ■ Offers quick selection of game or TV ■ Replaces most game switches ■ Easy to install

75ohm Output

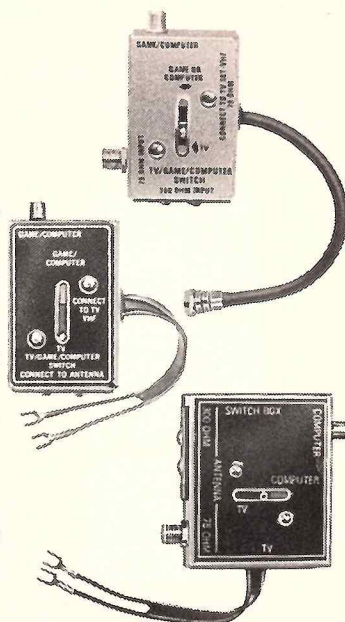
#33-355 \$2⁷⁰₍₁₋₉₎ \$2²⁰_(10-up)

300ohm Output

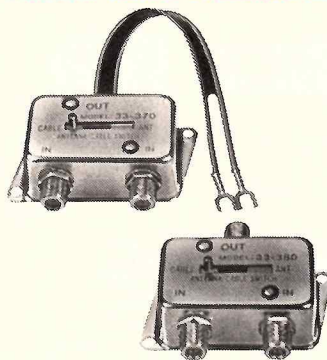
#33-360 \$2³⁰₍₁₋₉₎ \$1⁸⁰_(10-up)

75ohm or 300ohm Input 300ohm Output

#33-365 \$3¹⁰₍₁₋₉₎ \$2⁸⁰_(10-up)



Coaxial Cable Switches

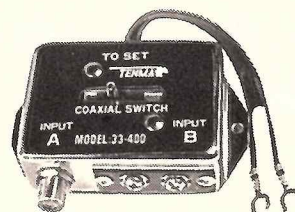


■ Two input, slide type A/B switch for CATV, MATV, MDS, STV and VCR applications ■ Offers a quick selection from regular TV antenna and cable, VCR or other input sources ■ 60dB isolation typical ■ 5-900MHz bandwidth

300ohm Output #33-370

75ohm Output #33-380

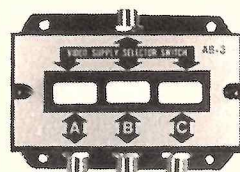
\$2⁴⁵₍₁₋₉₎ \$2²⁵_(10-up)



75ohm—300ohm Input 300ohm Output

■ 75-300ohm input ■ 300ohm output ■ A and B/65dB, A and TV/70dB, B and TV/70dB isolation

#33-400 \$3¹⁰₍₁₋₉₎ \$2⁸⁰_(10-up)



Three Input Video Switch

■ Three input push button type coax switch ■ Offers quick selection of antenna, cable, VCR or other input sources ■ 30dB isolation

#33-765 \$4⁹⁵₍₁₋₉₎ \$4²⁵_(10-up)

Deluxe A/B Switch

■ Two input, 75ohm, high isolation ■ A/B switch for CATV, MATV, MDS, STV and VCR applications ■ Features zinc diecast housing ■ Molded PVC outer case with mounting flanges ■ 5-900MHz bandwidth ■ 90dB isolation "off" ■ Patented design

#33-390 \$6⁹⁵₍₁₋₉₎ \$6¹⁵_(10-up)



Voltage Blocking Coupler

■ Blocks DC and low frequency AC power ■ Solid brass body with nickel plating ■ Female to male fittings ■ 22 gauge spring steel center pin ■ 1-1000MHz bandwidth ■ 16dB return loss ■ .3dB insertion loss

#33-0020 \$2⁰⁵₍₁₋₉₎ \$1⁸⁰_(10-up)



Channel Combiner

■ Combines channel 3 signal (from VCR, computer, game, etc.) with existing VHF signals not including channel 3 ■ Also removes bleedover of channel 3 modulated signal from adjacent channels 2 and 4

#33-255 \$15⁵⁰₍₁₋₉₎ \$14⁷⁵_(10-up)

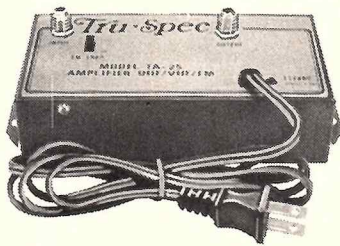


Amplifiers

Tru-Spec[™] UHF/VHF/FM 25dB

Features: ■ Low noise ■ Lightning protection ■ AC power indicator ■ Switchable FM trap ■ Low cost
Specifications: ■ Bandwidth (MHz) 54-900 ■ Gain (dB): VHF, 25; UHF, 22 ■ Maximum input: VHF, 18dB; UHF, 16dB ■ Maximum output: 40dB (54-800MHz) ■ Noise figure: VHF, 5dB; UHF, 7dB ■ 75ohm input/output ■ Power requirements: 115VAC; 60Hz ■ Dimensions: 5 7/8" (W) x 1 5/8" (H) x 3" (D)

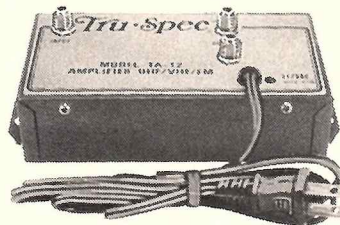
#33-0450 \$34⁹⁵₍₁₋₉₎ \$31⁹⁵_(10-up)



Tru-Spec[™] UHF/VHF/FM 12dB

Features: ■ Low noise ■ Lightning protection ■ AC power indicator ■ Two outputs ■ Low cost
Specifications: ■ Bandwidth (MHz) 54-890 ■ Gain (dB): VHF, 12dB; UHF, 11dB ■ Maximum input: VHF, 35dB; UHF, 25dB ■ Maximum output: VHF, 47dB; UHF, 38dB ■ Noise figure: VHF, 6dB; UHF, 7dB ■ Power requirements: 115VAC; 60Hz ■ Dimensions: 5 7/8" (W) x 1 5/8" (H) x 3" (D)

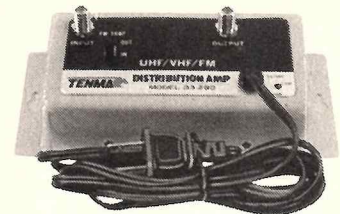
#33-0445 \$33⁵⁰₍₁₋₉₎ \$30⁹⁵_(10-up)



TENMA[™] UHF/VHF/FM 25dB

Features: ■ Low noise ■ High overload capacity ■ Lightning protection at RF input ■ Heavy gauge metal case ■ On-off indicator light ■ Switchable FM trap
Specifications: ■ Bandwidth (MHz): VHF, 54-300; UHF 470-890 ■ Gain (dB): VHF, 25; UHF, 23 ■ Maximum input (dBmV): VHF, 15; UHF, 17 ■ Maximum output (dBmV): VHF, 40; UHF, 40 ■ Noise figure (dB): VHF, low 5.4, high, 6.2; UHF, 14 ■ Power requirements: 117VAC ■ Dimensions: 6 5/8" (W) x 1 7/16" (H) x 3 3/32" (D)

#33-290 \$23⁹⁵₍₁₋₉₎ \$21⁴⁰_(10-up)

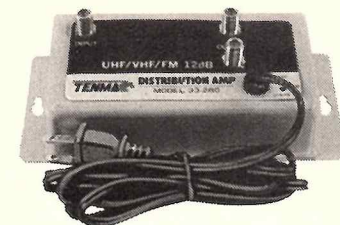


TENMA[™] UHF/VHF/FM 12dB

Features: ■ Low noise ■ High overload capacity ■ Lightning protection ■ Heavy gauge metal case ■ On-off indicator light

Specifications: ■ Bandwidth (MHz): VHF, 54-216; UHF 470-890 ■ Gain (dB): VHF, 12; UHF, 10 ■ Noise figure (dB): VHF, 6; UHF, 7.7 ■ Input capability (dBmV): 40 (100mV), 20 (10mV) ■ Input: 75ohm ■ Output: 75ohm ■ Power requirements: 117VAC; 60Hz ■ Dimensions: 6 5/8" (W) x 1 7/16" (H) x 3 3/32" (D)

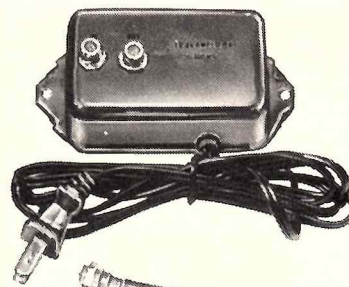
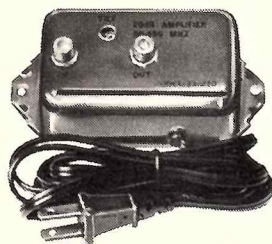
#33-280 \$22⁹⁵₍₁₋₉₎ \$19⁹⁵_(10-up)



VHF/FM 20dB

■ 50-450MHz bandwidth ■ 20dB gain ■ 40dB output capability ■ 117VAC power requirement ■ Dimensions: 3 1/2" (W) x 2 1/4" (H) x 1 1/2" (D)

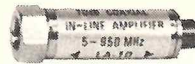
#33-270 \$16⁷⁵₍₁₋₉₎ \$14⁹⁵_(10-up)



VHF/FM 10dB

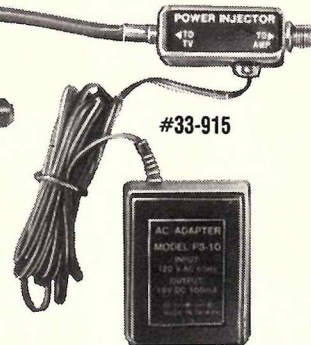
■ 50-300MHz bandwidth ■ 10dB gain ■ 30dB output capability ■ 117VAC power requirement ■ Dimensions: 3 1/2" (W) x 2 1/4" (H) x 1 1/2" (D)

#33-260 \$10³⁰₍₁₋₉₎ \$8⁹⁵_(10-up)

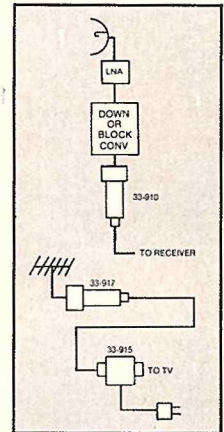


#33-910

#33-917



#33-915



In-Line Amplifiers

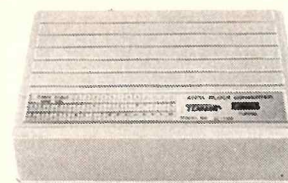
Specifications: ■ Bandwidth: 5-950MHz ■ Gain: 11dB ■ Maximum input: 20dB ■ Maximum output: 31dB ■ Noise figure: 4dB ■ Power requirements: 15VDC ■ Dimensions: 2 1/2" (L) x 5/8" (Dia)

#33-910 DC Passive: For satellite 70MHz in-line amplification when power dividers, low gain LNAs and down converters require additional gain.

#33-917 Non-Passive: For MATV/CATV applications when antenna preamplification and line amplification is required.

#33-915 Power Supply: Provides power supply (15VDC) and diplexer for #33-917 and #33-910

Order #	Type	Price (1-9)	Price (10-up)
33-917	Non-Passive Amp	\$9.55	\$9.05
33-910	DC Passive Amp	9.40	8.40
33-915	Power Supply	8.95	8.50



TENMA[™]

46 Channel Cable Converter

■ Allows user to access cable TV channels with a UHF tuner ■ Receives VHF, midband and superband channels on UHF ■ 5-8dB UHF gain ■ Fine tuning control ■ Easy installation

#32-100 \$24⁷⁵₍₁₋₉₎ \$20⁷⁵_(10-up)

LONGSTAR[™]

Learning Universal Remote Control

■ This remote learns your TV, CD, VCR and Hi-Fi remote control codes ■ Built-in 8K of memory to combine up to five different remote controls and up to 85 different commands ■ LCD display shows the time and also makes programming an ease ■ Built-in timer lets you program any device to come on at a specific time and a sleep control that will turn equipment off automatically ■ Seventeen programmable keys ■ Small enough to fit in shirt pocket ■ Comes with stand, directory card and batteries

*Note: Original remote controls are necessary in order to program this remote. It can not replace a lost remote.

#80-450 \$39⁹⁵_(ea.)





VCR HEADS

The following pages 92-95 have a thorough cross reference for VCR heads. Pages 96-97 show photos and pricing of all the VCR heads we stock.

Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #
Alkal			Goldstar			Hitachi			JVC		
VS-1U	—	32-530	CV-5500	—	32-1435	VT-60A	5459151	32-780	AH-7500U	PU20850C	32-530
VS-3U	—	32-530	CV-5800	—	32-1435	VT-61A	5459151	32-780	AH-8500U	PU20850C	32-525
Cannon			GHV-41FM	—	32-1435	VT-62A	5459151	32-780	BP-5100U	PU20850C	32-530
VR-10A	Y290228	32-500	GHV-42FM	—	32-1435	VT-63A	5459151	32-780	BR-1500U	PQ20014D-4	32-1050
VR-20A	—	32-775	GHV-45FM	—	32-1435	VT-71A	—	32-1040	BR-1600U	—	32-1055
VR-30A	DY4-1186	32-770	GHV-51FM	—	32-1435	VT-73AY	5459151	32-780	BR-3000U	PU20850C	32-530
Curtis Mathes			GHV-55FM	—	32-1435	VT-74AY	5459151	32-780	BR-6200U	PU20850C	32-530
AV725	RE00038	32-760	GHV-57FM	—	32-1435	VT-94A	5458411	32-515	BR-6300U	PU20850C	32-530
AV730	RE00038	32-760	GHV-1200M	—	32-1435	VT-330AW	5458411	32-515	BR-7000U	PRD2000A	32-1045
AV740	RE00038	32-760	GHV-1221	—	32-1435	VT-630A	5458411	32-515	BR-7000UR	PRD2000A	32-1045
AV750	RE00038	32-760	GHV-1233	—	32-1435	VT-1300AR	5459782	32-1040	BR-7120U	PU20850C	32-530
BV730	VEHS0095C	32-755	GHV-1233M	—	32-1435	VT-1100A	5457962	32-1800	BR-2650U	PU20850C	32-530
C648	16A048-019	32-160	GHV-1243M	—	32-1435	VT-1105A	5457962	32-1800	BR-6500U	PU20850A	32-525
C648R	16A048-019	32-160	GHV-1243M	—	32-1435	VT-1110A	5457962	32-1800	BR-6700U	PU20850A	32-525
C718	16A048-019	32-160	GHV-1245M	—	32-1435	VT-1305A	5457962	32-1800	BR-7100U	—	32-530
C722	16A048-019	32-160	GHV-1245M	—	32-1435	VT-1370A	5457962	32-1800	HR-7110U	PU20850C	32-530
D722	16A048-019	32-160	GHV-1246M	—	32-1435	VT-1400A	5457962	32-1800	HR-7300U	PU20850C	32-530
D729	16A048-027	32-470	GHV-1250M	—	32-1435	VT-1410A	5457962	32-1800	HR-7500U	PU20850C	32-530
E729	16A048-027	32-470	GHV-1255M	—	32-1435	VT-1430A	5457962	32-1800	HR-7650U	—	32-525
F735	—	32-490	GHV-1322	—	32-1435	VT-1455A	—	32-1040	HR-D120U	PU20850D	32-525
F736	16A048-029	32-490	GHV-1322	—	32-1435	VT-2000A	5457962	32-1800	HR-D120UM	PU20850D	32-525
F737	16A048-031	32-480	GHV-1322	—	32-1435	VT-2010	5457962	32-1800	HR-D130U	PU20850D	32-525
F740	16A048-029	32-180	GVT-9100M	—	32-1435	VT-2050A	5457962	32-1800	HR-D130UM	PU20850D	32-525
F748	16A048-029	32-180	KMW-9002	—	32-1435	VT-2060A	5457962	32-1800	HR-D131U	PU20850D	32-525
F749	16A048-029	32-180	KMW-9012	—	32-1435	VT-3000A	5457962	32-1800	HR-D131UM	PU20850D	32-525
G748	16A048-029	32-180	VCP-4000M	—	32-1435	VT-3010A	5457962	32-1800	HR-D140U	PQ20014D-4	32-1050
G750	16A048-031	32-480	VCP-4100M	—	32-1435	VT-3011A	5457962	32-1800	HR-D142U	PQ20014D-4	32-1050
G751	—	32-490	VCP-4110M	—	32-1435	VT-P1000	5457962	32-1800	HR-D150U	PQ20014D-4	32-1050
HV729	16A048-029	32-490	VCP-4206M	—	32-1435	VT-5200A	5458163	32-510	HR-D151U	PQ20014D-4	32-1050
HV749	16A048-029	32-180	General Electric			VT-6500A	5458163	32-510	HR-D160U	PQ20014D-4	32-1050
HV751	16A048-029	32-180	1CVA-400	EP41X104	32-490	VT-7000A	5458163	32-510	HR-D220U	PU20850C	32-530
HV753	16A048-029	32-180	1CVD-2021X	EP41X104	32-490	VT-7500A	5458163	32-510	HR-D225U	PU20850C	32-525
HV755	16A048-029	32-180	1CVD-3020X	EP41X148	32-500	VT-8000A	5458163	32-510	HR-D225UM	PU20850D	32-525
HV775	—	32-500	1CVD-4020X	—	32-500	VT-8500A	5458163	32-510	HR-D235U	PU20850C	32-530
JV729	RE00032	32-500	1CVD-4021X	EW41X148	32-770	VT-9500A	5458163	32-510	HR-S100U	PQ200148	32-1055
JV753	RE00019	32-775	1CVD-5025S	EW41X344	32-770	VT-P2000	5459782	32-1040	KV-901	PU20850C	32-530
JV754	RE00019	32-775	1CVP-2020X	EW41X344	32-770	VT-P3000	5459782	32-1040	KV-903	PU20850D	32-525
JV773	RE00019	32-775	1CVP-2021X	—	32-490	VT-TU3A	—	32-1040	KV-905	PU20850D	32-525
KV729	RE00032	32-500	1CVP-2022X	—	32-490	J.C. Penney			KV-913	PQ200114D-4	32-1050
KV740	RE00032	32-500	1CVP-3022X	EW41X148	32-500	685-5001	VEH0070	32-160	KV-915	—	32-1050
KV753	VEHS0077C	32-765	1CVP-3024X	EW41X148	32-500	685-5003	VEH0070	32-160	Lloyds		
KV758	VEHS0077C	32-765	1CVP-4022X	EW41X148	32-500	685-5004	VEH0070	32-160	L-823	—	32-1070
MV708	VEHS0095C	32-755	1CVP-4024X	—	32-500	685-5005	VEH0070	32-160	L-824	—	32-440
MV720	VEHS0095C	32-755	1CVP-5026B	EW41X344	32-770	685-5007	VEHS0002	32-470	OX-90173	62D80000110	32-1795
MV730	VEHS0095C	32-755	1CVP-5028B	EW41X344	32-770	685-5008	VEHS0002	32-470	Magnavox		
MV740	VEHS0095C	32-755	1CVP-5028X	EW41X344	32-770	685-5010	VEH0070	32-160	AR-83658K01	7044250077	32-500
MV753	VEHS0077C	32-765	1CVP-5030X	EW41X344	32-770	685-5011	VEHS0002	32-470	VH-8200BR01	VEH0070	32-160
MV773	17XVEHS0032C	32-500	1CVP-5435WQ	EW41X200	32-775	685-5012	VEH0070	32-160	VH-8225BR01	VEH0070	32-160
Emerson			1CVP-6020X	EW41X245	32-500	685-5015	—	32-490	VH-8251BR01	VEH0070	32-160
VCP-660	1590D00007	32-1070	1VCR-2W	EP41X34	32-160	686-5004	—	32-490	VH-8252BR01	VEH0070	32-160
VCP-661	1590D00027	32-1070	1VCR-5W	EP41X62	32-160	686-5009	1143-8322	32-490	VJ-8255BR01	70C 009-31	32-470
VCP-664	—	32-1070	1VCR-10W	EP41X46	32-160	686-5010	1147-4715	32-180	VJ-8255BR01	70C 003-22	32-160
VCP-665	—	32-1070	1VCR-1066X	—	32-510	686-5011	1147-4715	32-180	VJ-8255BR01	70C 003-22	32-160
VCP-700	1590D00007	32-1070	1VCR-1012W	EP41X81	32-1070	686-5012	1147-4715	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-754	1590D00007	32-1070	1VCR-1016X	EP41X81	32-510	686-5013	1147-4715	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-755	—	32-1070	1VCR-2002X	EP41X81	32-510	686-5015	—	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-800	1590D00008	32-1070	1VCR-2006W	EP41X81	32-510	686-5016	1147-4715	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-801	1590D00008	32-1070	1VCR-3000X	EW41X174	32-510	686-5017	1176-1822	32-510	VJ-8255BR01	70C 003-32	32-160
VCR-850	1590D00008	32-1070	1VCR-3001X	EW41X174	32-510	686-5019	1172-7500	32-500	VJ-8255BR01	70C 003-32	32-160
VCR-870	1590D00009	32-1070	1VCR-3010X	EW41X174	32-510	686-5020	1147-4715	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-870A	1590D00015	32-1070	1VCR-3014W	—	32-510	686-5021	1147-4715	32-180	VJ-8255BR01	70C 009-31	32-470
VCR-870C	1590D00009	32-1070	1VCR-4002X	EW41X148	32-500	686-5029	1201-7000	32-510	VJ-8255BR01	70C 009-31	32-470
VCR-870D	1590D00009	32-1070	1VCR-4012X	EW41X200	32-775	686-5030	1172-7500	32-500	VJ-8255BR01	70C 009-31	32-470
VCR-870H	1590D00015	32-1070	1VCR-4016X	EW41X200	32-775	686-5032	1172-7500	32-500	VJ-8255BR01	70C 009-31	32-470
VCR-872	1590D00019	32-1070	1VCR-5002X	EW41X245	32-500	686-5037	1191-8927	32-775	VJ-8255BR01	70C 009-31	32-470
VCR-872C	1590D00019	32-1070	1VCR-5003X	EW41X245	32-500	686-5038	1191-8927	32-775	VJ-8255BR01	70C 009-31	32-470
VCR-872D	1590D00031	32-1070	1VCR-5004X	EW41X245	32-500	686-5041	1172-7500	32-500	VJ-8255BR01	70C 009-31	32-470
VCR-872E	1590D00031	32-1070	1VCR-5010X	EW41X245	32-500	686-5042	1191-8927	32-775	VJ-8255BR01	70C 009-31	32-470
VCR-872F	1590D00031	32-1070	1VCR-5011X	EW41X329	32-765	686-5050	1172-7500	32-500	VJ-8255BR01	70C 009-31	32-470
VCR-880	—	32-1070	1VCR-5014X	EW41X329	32-765	686-5051	1194-9575	32-1040	VJ-8255BR01	70C 009-31	32-470
VCR-955H	—	32-1070	1VCR-5025X	EW41X344	32-770	686-5052	1231-1601	32-765	VJ-8255BR01	70C 009-31	32-470
VCR-970H	1590D00031	32-1070	1VCR-5026X	EW41X344	32-770	686-5053	1231-1601	32-765	VJ-8255BR01	70C 009-31	32-470
VCS-955	—	32-1070	1VCR-5028X	EW41X344	32-770	686-5054	1231-1601	32-765	VJ-8255BR01	70C 009-31	32-470
VCS-955A	1590D00019	32-1070	1VCR-6002X	EW41X483	32-755	686-5060	1218-1079	32-500	VJ-8255BR01	70C 009-31	32-470
VCS-955H	—	32-1070	1VCR-6003X	EW41X483	32-755	686-5061	1201-7000	32-510	VJ-8255BR01	70C 009-31	32-470
Fisher			1VCR-6004X	EW41X483	32-755	686-5066	1255-3194	32-755	VJ-8255BR01	70C 009-31	32-470
FVH-510	143-0-4704-00700	32-690	1VCR-6010X	EW41X483	32-755	686-5067	1255-3194	32-755	VJ-8255BR01	70C 009-31	32-470
FVH-515	143-0-4704-00700	32-690	1VCR-6011X	EW41X329	32-765	686-5068	1255-3194	32-755	VJ-8255BR01	70C 009-31	32-470
FVH-520	143-0-4704-00700	32-690	1VCR-6012X	EW41X329	32-765	686-5070	1255-3194	32-755	VJ-8255BR01	70C 009-31	32-470
FVH-525	143-0-4704-01000	32-690	1VCR-6015X	EW41X329	32-765	686-5071	1255-3194	32-755	VJ-8255BR01	70C 009-31	32-470
FVH-530	143-0-4704-00700	32-690	1VCR-6015W	EW41X329	32-765	686-5072	1279-3347	32-1040	VJ-8255BR01	70C 009-31	32-470
FVH-550	143-0-4704-00700	32-690	1VCR-9000W	EP41X34	32-160	686-5073	1231-1601	32-765	VJ-8255BR01	70C 009-31	32-470
FVH-615	143-0-4704-00700	32-690	9-7100	EW41X630	32-760	686-5075	1218-1079	32-500	VJ-8255BR01	70C 009-31	32-470



Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #
Magnavox			Panasonic			Panasonic			Philco		
VR-8465SL01	7044251299	32-770	AG-6810S	—	32-1450	PV-1565	—	32-1455	VP-100WSL02	7096110040	32-755
VR-8470BK01	7044250077	32-500	NV-100	VEH0148	32-500	PV-1580	—	32-1455	VT-8720AT01	7096110170	32-755
VR-8471BK01	7044250077	32-500	NV-260	VEH0276	32-1060	PV-1600	VEHS0002	32-470	VT-8750AT01	7096110120	32-760
VR-8480BK01	7044250847	32-775	NV-270	VEH0276	32-1060	PV-1600X	VEHS0002	32-470	VT-8760AT01	7096110120	32-760
VR-8481BK01	7044250847	32-775	NV-310	VEH0117	32-180	PV-1620	VEHS0052	32-775	VT-8762AT01	7096110120	32-760
VR-8485SL01	7044251299	32-770	NV-320	VEHS0144	32-775	PV-1620M	VEHS0052	32-775	VT-8765AT01	7096110120	32-760
VR-8485SL01	7044251299	32-770	NV-700	VEHS0144	32-775	PV-1630	VEHS0077	32-765	Portavideo		
VR-8500SL01	7096110040	32-765	NV-710	VEHS0144	32-775	PV-1700	VEHS0144	32-765	62080000119	62080000110	32-1795
VR-8500SL02	7096110040	32-765	NV-770	VEHS0144	32-775	PV-1720	VEHS0052	32-775	Quasar		
VR-8510SL01	7096110040	32-765	NV-1000A	VEH0070	32-160	PV-1750	VEHS0015	32-480	VAS13U	VEHS0052	32-775
VR-8515G01	7096110040	32-765	NV-1123	VEHS0071	32-500	PV-1750X	VEHS0015	32-480	VAS31UQ	VEHS0052	32-775
VR-8520SL01	7096110040	32-765	NV-1220	VEHS0011	32-180	PV-1770	VEHS0015	32-480	VAS56	VEHS0051	32-770
VR-8522BK01	7096110040	32-765	NV-2200	VEH0070	32-160	PV-1800	VEHS0191	32-1810	VHS0000W	VEH0070	32-160
VR-8525GY01	7096110040	32-765	NV-3000	VEH0107	32-180	PV-1800K	VEHS0191	32-1810	VHS0100W	VEH0070	32-160
VR-8530SL01	7096110040	32-765	NV-3200	VEH0107	32-180	PV-2000	VEH0070	32-160	VHS011TW	VEHS0011	32-180
VR-8535GY01	7096110040	32-765	NV-3300	VEH0107	32-180	PV-2100	VEH0070	32-160	VHS015SW	VEHS0011	32-180
VR-8542SL01	7044251298	32-765	NV-3400	—	32-1440	PV-2200	VEH0070	32-160	VHS020RW	VEHS0002	32-470
VR-8544SL01	7044251298	32-765	NV-3500	VEH0107	32-180	PV-2600	VEHS0002	32-470	VHS021UW	VEHS0011	32-180
VR-8545GY01	7044251298	32-765	NV-3700	VEH0107	32-180	PV-2600X	VEHS0002	32-470	VHS022UW	VEHS0011	32-180
VR-8558SL01	7044251298	32-765	NV-5000	—	32-1440	PV-2700	VEHS0144	32-765	VHS030SW	VEHS0011	32-180
VR-8565SL01	7044251299	32-770	NV-5500P	—	32-1440	PV-2700R	VEHS0144	32-765	VHS031WW	VEHS0032	32-500
VR-9500AT01	7096110120	32-760	NV-6000	—	32-1440	PV-2700W	VEHS0144	32-765	VHS032WQ	VEHS0032	32-500
VR-9502AT01	7096110120	32-760	NV-6200	—	32-1440	PV-2800	VEHS0191	32-1810	VHS040SW	VEHS0011	32-180
VR-9510AT01	7096110120	32-760	NV-6500	—	32-1440	PV-2800B-K	VEHS0191	32-1810	VHS041K	VEHS0011	32-500
VR-9512AT01	7096110120	32-760	NV-6600	—	32-1440	PV-2801G	VEHS0191	32-1810	VHS041XW	VEHS0071	32-500
VR-9520AT01	7096110120	32-760	NV-8110	—	32-1440	PV-2801G-K	VEHS0191	32-1810	VR5042K	VEHS0071	32-500
VR-9522AT01	7096110120	32-760	NV-8150	—	32-1440	PV-2802R	VEHS0191	32-1810	VHS042XQ	VEHS0071	32-500
VR-9525AT01	7096110120	32-760	NV-8160	—	32-1440	PV-2802R-K	VEHS0191	32-1810	VHS043XQ	VEHS0071	32-500
VR-9528AT01	7096110120	32-760	NV-8170	—	32-1440	PV-2803W	VEHS0191	32-1810	VHS045XQ	VEHS0071	32-500
VR-9530AT01	7096110120	32-760	NV-8200	—	32-1440	PV-2803W-K	VEHS0191	32-1810	VHS050VQ	VEHS0071	32-500
VR-9535AT01	7096110120	32-760	NV-8300	VEH0070	32-160	PV-2805	VEHS0191	32-1810	VHS051YQ	VEHS0095	32-755
VR-9545AT01	7096110120	32-760	NV-8310	—	32-1440	PV-2812	VEHS0191	32-1810	VHS060XQ	VEHS0011	32-760
VR-9547AT01	7096110120	32-760	NV-8320	VEHS0015	32-480	PV-2812K	VEHS0191	32-1810	VHS061W	VEHS0011	32-760
VR-9602AT01	7096110170	32-755	NV-8400	—	32-1440	PV-2820	VEHS0191	32-1810	VHS061XQ	VEHS0011	32-760
VR-9610AT01	7096110170	32-755	NV-8410	—	32-1440	PV-2822	VEHS0191	32-1810	VHS061YQ	VEHS0011	32-760
VR-9614AT01	7096110170	32-755	NV-8450	VEH0117	32-180	PV-2850	VEHS0191	32-1810	VHS120UW	VEHS0011	32-180
VR-9620AT01	7096110170	32-755	NV-8460	VEH0117	32-180	PV-2855	VEHS0191	32-1810	VHS125UW	VEHS0011	32-180
VR-9622AT01	7096110170	32-755	NV-8600	—	32-1440	PV-2900	VEHS0191	32-1810	VHS135WQ	VEHS0032	32-500
VR-9700AT01	VEHS0191	32-1810	NV-8650	VEH0117	32-180	PV-3000	VEHS0009	32-490	VHS140XQ	VEHS0032	32-500
VR-9710AT01	VEHS0191	32-1810	NV-8700	VEH0117	32-180	PV-3100	VEHS0009	32-490	VHS141XQ	VEHS0071	32-500
VR-9720AT01	VEHS0191	32-1810	NV-8750	VEH0117	32-180	PV-3100M	VEHS0009	32-490	VHS145XQ	VEHS0071	32-500
VR-9722AT01	VEHS0191	32-1810	NV-8760	—	32-1440	PV-3200	VEHS0009	32-490	VHS150RW	VEHS0002	32-470
VR-9725AT01	VEHS0191	32-1810	NV-8800	—	32-1440	PV-3200X	VEHS0009	32-490	VHS151RW	VEHS0002	32-470
Marantz			NV-89	VEH0276	32-1060	PV-3700	VEHS0145	32-1815	VHS151YQ	VEHS0095	32-755
VR-200	—	32-389	NV-89BR	VEH0276	32-1060	PV-3720	VEHS0145	32-1815	VHS152VQ	VEHS0095	32-755
Minolta			NV-89X	VEH0276	32-1060	PV-3720B	VEHS0145	32-1815	VHS153WQ	VEHS0095	32-755
MV-20S	5457962	32-1800	NV-910	VEH0276	32-1060	PV-3770	VEHS0145	32-1815	VHS154VQ	VEHS0095	32-755
MV-120S	5457962	32-1800	NV-G10PX	VEH0276	32-1060	PV-4000	VEHS0009	32-490	VHS156VQ	VEHS0095	32-755
2995-0412-01	5457962	32-1800	NV-G18PX	VEHS0095	32-755	PV-4100	VEHS0009	32-490	VHS157YE	VEHS0095	32-755
Montgomery Ward			PV-1000	VEH0070	32-160	PV-4500	VEHS0009	32-490	VHS158VQ	VEHS0095	32-755
63-10518	VEHS0011	32-180	PV-1000A	VEH0070	32-160	PV-4510	VEHS0009	32-490	VHS160SW	VEHS0011	32-480
63-10520A	VEHS0009	32-490	PV-1100	VEH0070	32-160	PV-4700	—	32-1460	VHS162	VEHS0015	32-760
63-10524	VEHS0009	32-490	PV-1120	—	32-1440	PV-4700K	—	32-1460	VHS163	VEHS0015	32-760
63-10525	DDRMU0002HE00	32-440	PV-1200	VEHS0002	32-470	PV-4720	—	32-1460	VHS164	VEHS0015	32-760
GEN-10518A	VEHS0011	32-180	PV-1200X	VEHS0002	32-470	PV-4720K	—	32-1460	VHS165	VEHS0015	32-760
GEN-10520A	VEHS0011	32-180	PV-1210	VEHS0011	32-180	PV-4722	—	32-1460	VHS168	VEHS0015	32-760
GEN-10521A	VEHS0011	32-180	PV-1210X	VEHS0011	32-180	PV-4722K	—	32-1460	VHS169	VEHS0015	32-760
GEN-10522A	VEHS0011	32-180	PV-1220	VEHS0032	32-500	PV-4750	—	32-1460	VHS170	VEHS0011	32-180
GEN-10523A	VEHS0011	32-180	PV-1220M	VEHS0032	32-500	PV-4770	—	32-1460	VHS200RQ	VEH0070	32-160
GEN-10524	VEHS0011	32-480	PV-1222	VEHS0071	32-500	PV-4800	—	32-1460	VHS210TW	VEHS0011	32-180
GEN-10525A	DDRMU0002HE00	32-440	PV-1222A	VEHS0071	32-500	PV-4800K	—	32-1460	VHS230WQ	VEHS0052	32-775
GEN-10526	DDRMU0002HE00	32-440	PV-1224	VEHS0071	32-500	PV-4812	—	32-1460	VHS235WQ	VEHS0052	32-775
GEN-10527	DDRMU0002HE00	32-440	PV-1225	VEHS0071	32-500	PV-4820	—	32-1460	VHS245XW	VEHS0077	32-765
GEN-10528	DDRMU0002HE00	32-440	PV-1225A	VEHS0071	32-500	PV-4820K	—	32-1460	VHS245VQ	VEHS0077	32-765
GEN-10529A	DDRMU0002HE00	32-440	PV-1230	VEHS0071	32-500	PV-4822	—	32-1460	VHS246K	VEHS0077	32-765
GEN-10529B	DDRMU0002HE00	32-440	PV-1231M	VEHS0071	32-500	PV-4822K	—	32-1460	VHS246XQ	VEHS0077	32-765
GEN-10550A	DDRMU0002HE00	32-440	PV-1231R	VEHS0071	32-500	PV-4826	—	32-1460	VHS250RQ	VEHS0002	32-470
JSJ-10550	DDRMU0002HE01	32-440	PV-1265	VEHS0011	32-180	PV-4850	—	32-1460	VHS251YQ	VEHS0077	32-765
JSJ-10658A	DDRMU0002HE21	32-1065	PV-1265X	VEHS0011	32-180	PV-4852	—	32-1460	VHS254VQ	VEHS0077	32-765
JSJ-10659A	DDRMU0002HE21	32-1065	PV-1270	VEHS0011	32-180	PV-4870	—	32-1460	VHS256YE	VEHS0077	32-765
JSJ-10660A	DDRMU0002HE21	32-1065	PV-1270X	VEHS0011	32-180	PV-4870PX	—	32-1460	VHS270	VEHS0144	32-755
JSJ-10660B	DDRMU0002HE21	32-1065	PV-1275	VEHS0011	32-180	PV-5000	VEHS0032	32-500	VHS280	VEHS0191	32-1810
JSJ-10661A	DDRMU0002HE21	32-1065	PV-1275X	VEHS0011	32-180	PV-5110	VEHS0032	32-500	VHS280K	VEHS0191	32-1810
JSJ-10661B	DDRMU0002HE21	32-1065	PV-1280	VEHS0011	32-180	PV-5111	VEHS0032	32-500	VHS300SE	VEHS0009	32-490
JSJ-10662	DDRMU0002HE00	32-440	PV-1280M	VEHS0011	32-180	PV-5200	VEHS0032	32-500	VHS310TW	VEHS0011	32-180
JSJ-10677A	DDRMU0002HE25	32-1065	PV-1300	VEHS0011	32-180	PV-5400	VEHS0032	32-500	VHS320UW	VEHS0011	32-180
JSJ-10677B	DDRMU0002HE25	32-1065	PV-1300X	VEHS0011	32-180	PV-5400M	VEHS0032	32-500	VHS335WQ	VEHS0052	32-775
JSJ-10677C	DDRMU0002HE25	32-1065	PV-1310	VEHS0011	32-180	PV-5500	VEHS0032	32-500	VHS370	VEHS0145	32-1815
JSJ-10678A	DDRMU0002HE25	32-1065	PV-1310X	VEHS0011	32-180	PV-6000	VEHS0052	32-775	VHS371	VEHS0145	32-1815
JSJ-10678B	DDRMU0002HE25	32-1065	PV-1320	VEHS0032	32-500	PV-6110	VEHS0052	32-775	VHS372	VEHS0145	32-1815
JSJ-10678C	DDRMU0002HE25	32-1065	PV-1321	VEHS0032	32-500	PV-6500	VEHS0052	32-775	VHS378	VEHS0145	32-1815
JSJ-10679A	DDRMU0002HE25	32-1065	PV-1322	VEHS0032	32-500	PV-6600	VEHS0052	32-775	VHS379	VEHS0145	32-1815
JSJ-10679B	DDRMU0002HE25	32-1065	PV-1330	VEHS0095	32-765	PV-8000	VEHS0081	32-770	VHS410TE	VEHS0009	32-490
JSJ-10679C	DDRMU0002HE25	32-1065	PV-1330K	VEHS0095	32-765	PV-8000G	VEHS0081	32-770	VHS435WQ	VEHS0052	32-775
JSJ-10680A	DDRMU0002HE25	32-1065	PV-1330R	VEHS0095	32-765	PV-8000M	VEHS0081	32-770	VHS4610TW	VEHS0015	32-480
JSJ-10680B	DDRMU00										



VCR HEADS

Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #
RCA			Realistic			Sanyo			Sony		
VDT-150	147157	32-510	H4043	62D80000110	32-1795	VHR-1350	143-0-771T-07200	32-1075	SL-230P	A-6762-017-A	32-389
VDT-201	144257	32-160	16-503 MDL14	62D80000110	32-1795	VHR-1500	143-0-771T-05122	32-1075	SL-400	A-6762-177-A	32-625
VDT-350	—	32-470	16-504 MDL15	62D80000110	32-1795	VHR-1550	143-0-771T-05122	32-1075	SL-500E1	A-6762-069-A	32-390
VDT-501	146974	32-470	16-505 MDL16	62D80000110	32-1795	VHR-2250	143-0-771T-05122	32-1075	SL-2000	A-6762-064-A	32-625
VDT-550	148672	32-180	16-509 MDL20	62D80000110	32-1795	VHR-2350	143-0-771T-07200	32-1075	SL-2005	A-6762-115-A	32-625
VDT-555	148672	32-470	Sampo			VHR-2550	143-0-771T-05122	32-1075	SL-2300	A-6762-115-A	32-625
VDT-565	148672	32-470	VCR-8000-01-19	62D80000110	32-1795	VHR-2700	143-0-771T-07200	32-1075	SL-2305	A-6762-115-A	32-625
VDT-600	146974	32-470	Samsung			VHR-2900	143-0-771T-09800	32-1075	SL-2400	A-6762-115-A	32-625
VEP-150	147157	32-510	VP-2090	69000-370-011	32-1465	VHR-3050	143-0-771T-11500	32-1080	SL-2401	A-6762-115-A	32-625
VEP-170	147157	32-510	VP-2095	69000-370-011	32-1465	VHR-3250	143-0-771T-11500	32-1080	SL-2405	A-6762-115-A	32-625
VET-150	144257	32-160	VP-2190A	69000-370-011	32-1465	VHR-3350	143-0-771T-11500	32-1080	SL-2406	A-6762-115-A	32-625
VET-180	148672	32-180	VP-2210	69000-370-011	32-1465	VPR-4800	—	32-1200	SL-2408	—	32-625
VET-200	148672	32-180	VP-2215	69000-370-011	32-1465	VTC-E1	143-0-242V-01500	32-1200	SL-2410	A-6762-115-A	32-625
VET-250	148672	32-180	VP-2209	69000-370-011	32-1465	VTC-E3	143-0-242V-01500	32-1200	SL-2415	A-6762-115-A	32-625
VET-253	148672	32-180	VP-2390	69000-370-011	32-1465	VTC-F4	143-0-242V-01500	32-1200	SL-3000	A-6762-017-A	32-389
VET-450	148672	32-180	VP-2395	69000-370-011	32-1465	VTC-G1	143-0-242V-01500	32-1200	SL-3030	A-6762-115-A	32-625
VET-650	149636	32-480	VP-2509	69000-370-011	32-1465	VTC-G2	143-0-242V-01500	32-1200	SL-5000	A-6762-069-A	32-390
VFP-170	150675	32-510	VR-510	69000-370-011	32-1465	Sears			SL-5010	A-6762-031-A	32-390
VFP-174	150675	32-510	VR-500A	69000-370-011	32-1465	564.53010250	46-39731-3	32-1200	SL-5020	A-6762-069-A	32-390
VFT-190	148672	32-180	VR-1000	69000-370-011	32-1465	564.53090250	46-39731-3	32-1200	SL-5100	A-6762-069-A	32-390
VFT-193	148672	32-180	VR-1000G	69000-370-011	32-1465	564.53090251	46-39731-3	32-1200	SL-5101	A-6762-069-A	32-390
VFT-250	148672	32-180	VR-2000	69000-370-011	32-1465	564.53090252	46-39731-3	32-1200	SL-5200	A-6762-069-A	32-390
VFT-450	148672	32-180	VR-2310	69000-370-011	32-1465	564.53091450	46-39731-3	32-1200	SL-5400	A-6762-069-A	32-390
VFT-455	148672	32-180	VR-2400	69000-370-011	32-1465	564.53100150	46-39731-3	32-1200	SL-5400E1	A-6762-069-A	32-390
VFT-456	149636	32-480	VR-2410	69000-370-011	32-1465	564.53110250	46-39731-3	32-1200	SL-5400MD	A-6762-069-A	32-390
VFT-654	149636	32-480	VR-2430	69000-370-011	32-1465	564.53140150	46-39731-3	32-1200	SL-5600	A-6762-069-A	32-390
VGP-150	150675	32-510	VR-2500L	69000-370-011	32-1465	564.53170450	46-39731-3	32-1200	SL-6200	A-6762-049-A	32-389
VGT-200	148672	32-180	VR-2600	69000-370-011	32-1465	564.53180150	46-39731-3	32-1200	SL-7200	A-6762-049-A	32-389
VGT-203	148672	32-180	VR-2610	69000-370-011	32-1465	564.53180151	46-39731-3	32-1200	SL-7350	A-6762-049-A	32-389
VGT-205	148672	32-180	VR-2650	69000-370-011	32-1465	564.53280550	46-391374-3	32-1075	SL-8100	A-6762-049-A	32-389
VGT-207	148672	32-180	VR-2670	69000-370-011	32-1465	564.53306550	46-391374-3	32-1075	SL-8200	A-6762-017-A	32-389
VGT-225	148672	32-180	VR-2680	69000-370-011	32-1465	564.53341550	46-391374-3	32-1075	SL-8300	A-6762-017-A	32-389
VGT-300	148672	32-180	VR-2690	69000-370-011	32-1465	564.53341551	46-391374-3	32-1075	SL-8500	A-6762-017-A	32-389
VGT-450	148672	32-180	VR-3000	69000-370-011	32-1465	564.53390650	46-391374-3	32-1075	SL-8600	A-6762-017-A	32-389
VJP-170	158927	32-1040	VR-3300	69000-370-011	32-1465	564.53490650	46-391374-3	32-1075	SL-F1	A-6762-115-A	32-625
VJT-250	157083	32-515	VR-3309	69000-370-011	32-1465	934.53130250	—	32-515	SL-F3	A-6762-115-A	32-625
VJT-255	157083	32-515	VR-3509	69000-370-011	32-1465	934.53131350	46-391315-3	32-515	SL-F17	A-6762-115-A	32-625
VJT-275	157083	32-515	VR-3519	69000-370-011	32-1465	934.53150350	46-391315-3	32-515	SL-F33	A-6762-115-A	32-625
VKP-170	161186	32-1040	VR-4000	69000-370-011	32-1465	934.53160350	—	32-515	SL-HF77	A-6762-115-A	32-625
VKT-275	157083	32-515	VR-4309	69000-370-011	32-1465	934.53161450	46-391315-3	32-515	SL-HF300	A-6762-115-A	32-625
VKT-300	157083	32-515	VR-5500H	69000-370-011	32-1465	934.53230250	—	32-510	SL-HF400	A-6762-115-A	32-625
VKT-310	157083	32-515	VR-5620L	69000-370-011	32-1465	934.53281550	—	32-780	SL-HFR20	—	32-625
VKT-325	157083	32-515	VT-30E	69000-370-011	32-1465	934.53281551	—	32-780	SL-HFR25	—	32-625
VKT-326	157083	32-515	VT-210TB	69000-370-011	32-1465	934.53286550	46-391315-3	32-780	SL-HFR30	A-6762-177-A	32-625
VKT-375	163883	32-780	VT-215T	69000-370-011	32-1465	934.53286551	46-391315-3	32-780	SL-J1	A-6762-031-A	32-390
VKT-385	163883	32-780	VT-221T	69000-370-011	32-1465	934.53300450	46-391315-3	32-515	SL-J5	A-6762-031-A	32-390
VKT-385-S1	163883	32-780	VT-222T	69000-370-011	32-1465	934.53300450	46-391315-3	32-780	SL-J7	A-6762-031-A	32-390
VKT-400	161186	32-1040	VT-301P	69000-370-011	32-1465	934.53320450	46-391315-3	32-515	SL-J10	A-6762-031-A	32-390
VKT-425	161186	32-1040	VT-500	69000-370-011	32-1465	934.53320550	46-391315-3	32-515	SL-J20	A-6762-031-A	32-390
VKT-426	161186	32-1040	VT-503P	69000-370-011	32-1465	934.53321450	46-391315-3	32-515	SL-J25	A-6762-031-A	32-390
VLP-800	164470	32-515	VT-900P	69000-370-011	32-1465	934.53323550	—	32-780	SL-J29	A-6762-031-A	32-390
VLP-825	164470	32-515	VT-910P	69000-370-011	32-1465	934.53323551	—	32-780	SL-S380	—	32-390
VLP-826	164470	32-515	VT-950R	69000-370-011	32-1465	934.53360550	—	32-780	SL-S500	—	32-625
VLP-827	164470	32-515	VT-7000J	69000-370-011	32-1465	934.53360551	—	32-780	SL-S510	—	32-390
VLT-250	163883	32-780	VT-7220	69000-370-011	32-1465	934.53380550	—	32-780	SL-S6800	—	32-390
VLT-260	163883	32-780	VT-7232	69000-370-011	32-1465	934.53380551	—	32-780	SL-260	A-6762-096-A	32-389
VLT-270	163883	32-780	VT-7250	69000-370-011	32-1465	934.53380552	—	32-780	SL-305	A-6762-096-A	32-389
VLT-275	163883	32-780	VT-7251	69000-370-011	32-1465	934.53680350	46-391155-3	32-1040	SL-320	A-6762-096-A	32-389
VLT-300	163883	32-780	VT-7252	69000-370-011	32-1465	934.53681450	46-391155-3	32-1040	SL-323	A-6762-029-A	32-389
VLT-375	163883	32-780	VT-7253	69000-370-011	32-1465	934.53681550	46-391155-3	32-1040	SL-323MD	A-6762-029-A	32-389
VLT-385	163883	32-780	VT-7256	69000-370-011	32-1465	Sharp			SL-330	A-6762-029-A	32-389
VLT-386	163883	32-780	VT-7257	69000-370-011	32-1465	VC-41Z	—	32-440	SL-332	A-6762-029-A	32-389
VLT-387	163883	32-780	VT-7258	69000-370-011	32-1465	VC-102U	—	32-440	SL-333	A-6762-029-A	32-389
VLT-388	163883	32									



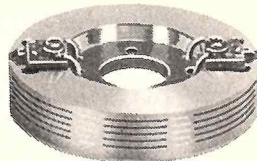
Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #	Mfg./Model #	Mfg. Part #	Order #
Sylvania			Toshiba			Toshiba			Toshiba		
VC-8945AT01	7096110120	32-760	M-1283	70321991	32-1470	M-5130	70321991	32-1470	VM-41TL	70321343	32-1825
VCA-108BK01	7044250077	32-500	M-1287	70321991	32-1470	M-5130C	70321991	32-1470	VM-42	70321343	32-1825
Symphonie			M-1287C	70321991	32-1470	M-5130M	70321991	32-1470	VM-42C	70321343	32-1825
VCR-4000	62D80000110	32-1795	M-2100	70321991	32-1470	M-5130TL	70321991	32-1470	VM-44	70321343	32-1825
VCR-4007	62D80000110	32-1795	M-2100C	70321991	32-1470	M-5130TLM	70321991	32-1470	VM-50	70321343	32-1825
VCR-4500	62D80000110	32-1795	M-2100R	70321991	32-1470	M-5130TZ	70321991	32-1470	VM-51	70321343	32-1825
VCR-4800	62D80000110	32-1795	M-2100RC	70321991	32-1470	M-5150TL	70321991	32-1470	VM-52	70321343	32-1825
VCR-4800A	62D80000110	32-1795	M-2100RL	70321991	32-1470	M-5483	70321991	32-1470	VM-53	70321343	32-1825
VCR-5000	62D80000110	32-1795	M-2100RTL	70321991	32-1470	M-6003	70321991	32-1470	VM-400	70321343	32-1825
VCR-5100	62D80000110	32-1795	M-2100R22	70321991	32-1470	V-303S	70321343	32-1825	VM-40S	70321343	32-1825
VCR-5200	62D80000110	32-1795	M-2104	70321991	32-1470	V-400	70321343	32-1825	VM-410	70321343	32-1825
VCR-5300	62D80000110	32-1795	M-2104C	70321991	32-1470	V-400C	70321343	32-1825	VM-411	70321343	32-1825
VCR-5400	62D80000110	32-1795	M-2120	70321991	32-1470	V-415	70321343	32-1825	VM-412	70321343	32-1825
VCR-5500	62D80000110	32-1795	M-2120C	70321991	32-1470	V-443	70321343	32-1825	VM-415	70321343	32-1825
VCR-5500A	62D80000110	32-1795	M-2124	70321991	32-1470	V-900C	70321991	32-1470	VM-420	70321343	32-1825
VCR-5700	62D80000110	32-1795	M-2124C	70321991	32-1470	V-5200	70321485	32-389	VM-422	70321343	32-1825
VCR-5800	62D80000110	32-1795	M-2130C	70321991	32-1470	V-5210	70321485	32-389	VM-423	70321343	32-1825
VCR-5900	62D80000110	32-1795	M-2130R	70321991	32-1470	V-5300	70321485	32-389	VM-521	70321343	32-1825
VCR-6300	62D80000110	32-1795	M-2130RC	70321991	32-1470	V-5310C	70321485	32-389	VRT-78	70321991	32-1470
8000-01-10	62D80000110	32-1795	M-2130RL	70321991	32-1470	V-5310T	70321485	32-389	VRT-79	70321991	32-1470
8000-01-19	62D80000110	32-1795	M-2130RTL	70321991	32-1470	V-5420	70321485	32-389	VRT-88	70321991	32-1470
Tatung			M-2130RZ	70321991	32-1470	V-5420C	70321485	32-389	VRT-95	70321991	32-1470
VRH-3300	PU20850D	32-525	M-2134	70321991	32-1470	V-5420U	70321485	32-389	VRT-98M	70321991	32-1470
VRH-8200U	PU20850C	32-530	M-2134C	70321991	32-1470	V-5425	70321417	32-390	VRT-169	70321991	32-1470
VRH-8300U	PU20850D	32-525	M-2138	70321991	32-1470	V-5530	70321485	32-389	VS-43	70321343	32-1825
VRH-8400U	PU20850D	32-525	M-2138C	70321991	32-1470	V-5530T	70321485	32-389	VS-44C	70321343	32-1825
VRH-8500U	PU20850D	32-525	M-2200	70321991	32-1470	V-5530U	70321485	32-389	VS-46	70321343	32-1825
VRH-8700U	PU20850D	32-525	M-2200C	70321991	32-1470	V-5535	70321485	32-389	VS-54	70321343	32-1825
TEAC			M-2200SK	70321991	32-1470	V-5700	70321485	32-389	VTM-1000	70321991	32-1470
MV-350	62D80000110	32-1795	M-2220	70321991	32-1470	V-6000	70321343	32-1825	VTM-1100	70321991	32-1470
MV-360	62D80000110	32-1795	M-2220SK	70321991	32-1470	V-7100	70321485	32-389	Television		
MV-370	62D80000110	32-1795	M-2230C	70321991	32-1470	V-8000	70321343	32-1825	GS-2000	—	32-500
MV-380	62D80000110	32-1795	M-2283	70321991	32-1470	V-8000C	70321343	32-1825	GS-3000H	—	32-500
MV-460	62D80000110	32-1795	M-2287	70321991	32-1470	V-8000T	70321343	32-1825	GS-4000	—	32-500
MV-600	62D80000110	32-1795	M-2300	70321991	32-1470	V-8000U	70321343	32-1825	Zenith		
9A00441400	62D80000110	32-1795	M-2300C	70321991	32-1470	V-8030	70321343	32-1825	JR900W	942-211	32-389
Teknika			M-2300X	70321991	32-1470	V-8030T	70321343	32-1825	KR9000	942-211	32-389
VCR-471	VEHS0032	32-500	M-2320	70321991	32-1470	V-8035C	70321343	32-1825	KR9500	942-211	32-389
VCR-571	VEHS0095	32-755	M-2330	70321991	32-1470	V-8035T	70321343	32-1825	KR9500	942-278	32-390
VCR-583	VEHS0095	32-755	M-2330C	70321991	32-1470	V-8035U	70321343	32-1825	VR1800	—	32-1050
VCR-584	VEHS0095	32-760	M-2400	70321991	32-1470	V-9000	70321343	32-1825	VR1805	835-163	32-1050
VCR-683	VEHS0115	32-760	M-2420	70321991	32-1470	V-9100	70321343	32-1825	VR2150	835-163	32-1050
VCR-684	—	32-760	M-2430	70321991	32-1470	V-9200	70321343	32-1825	VR2175	835-163	32-1050
VCR-686	—	32-760	M-2900C	70321991	32-1470	VC-30U	70321343	32-1825	VR5000	—	32-1055
VCR-782	VEHS0144	32-755	M-3285	70321991	32-1470	VC-300	70321343	32-1825	VR8500PT	942-278	32-390
VCR-783	VEHS0144	32-755	M-3430	70321991	32-1470	VM-7R	70321343	32-1825	VR8510	942-257	32-625
VCR-4000	VEHS0032	32-500	M-3440	70321991	32-1470	VM-30	70321343	32-1825	VR8900UW	942-278	32-390
Toshiba			M-5100	70321991	32-1470	VM-32	70321343	32-1825	VR8910PT	942-278	32-390
A-200	70321991	32-1470	M-5100C	70321991	32-1470	VM-32C	70321343	32-1825	VR9000J	942-278	32-390
A-2200	70321991	32-1470	M-5100TL	70321991	32-1470	VM-32T	70321343	32-1825	VR9000W	942-278	32-390
A-2300	70321991	32-1470	M-5100Z	70321991	32-1470	VM-32U	70321343	32-1825	VR9500	942-257	32-625
A-2400	70321991	32-1470	M-5120	70321991	32-1470	VM-40	70321343	32-1825	VR9700J	942-278	32-390
AV-729	70321991	32-1470	M-5120C	70321991	32-1470	VM-41C	70321343	32-1825	VR9800	942-257	32-625
									VR9850	—	32-625

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Fisher Type

#32-690 \$74⁹⁰₍₁₋₃₎ \$65⁴⁰_(4-up)



Fisher Type

#32-1430 \$45⁵⁰_(ea.)



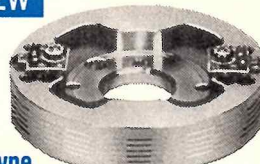
Funai Type

#32-1795 \$39⁹⁵_(ea.)



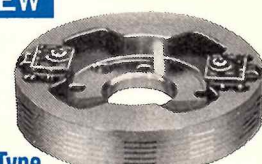
Goldstar Type

#32-1435 \$32⁰⁰_(ea.)



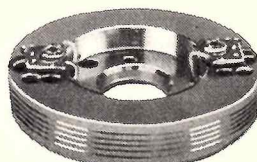
Hitachi Type

#32-1800 \$42³⁵_(ea.)



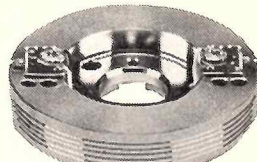
Hitachi Type

#32-1805 \$58⁷⁰_(ea.)



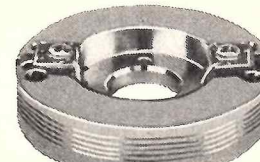
Hitachi/RCA Type

#32-515 \$59⁹⁵₍₁₋₃₎ \$54⁸⁰_(4-up)



Hitachi/RCA Type

#32-780 \$59⁹⁵_(ea.)



Hitachi Type

#32-510 \$59⁹⁵₍₁₋₃₎ \$54⁸⁰_(4-up)

IN CANADA CALL TOLL FREE

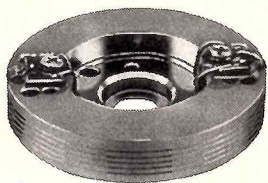
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



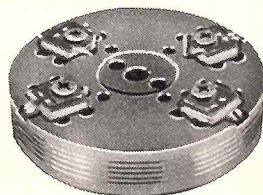


VCR HEADS



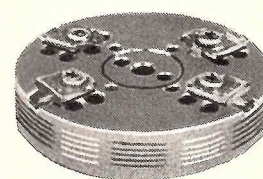
Hitachi Type

#32-1040 \$84⁹⁵_(ea.)



JVC Type

#32-525 \$83⁹⁵₍₁₋₃₎ \$79⁸⁰_(4-up)



JVC Type

#32-530 \$83⁹⁵₍₁₋₃₎ \$79⁸⁰_(4-up)



Matsushita Type

#32-1810 \$33⁸⁰_(ea.)



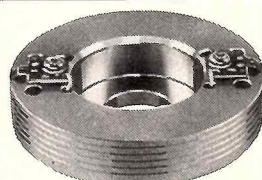
Matsushita Type

#32-1815 \$55¹⁵_(ea.)



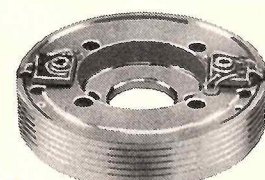
NEC Type

#32-1820 \$46⁷⁰_(ea.)



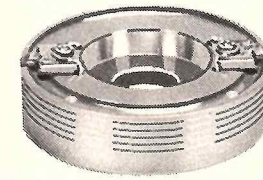
Orion/Emerson Type

#32-1070 \$69⁰⁰_(ea.)



Panasonic Type

#32-1060 \$89⁹⁵_(ea.)



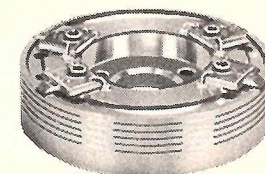
Panasonic Type

#32-1440 \$36⁵⁰_(ea.)



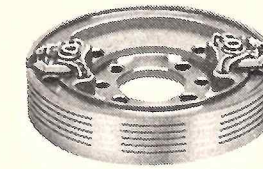
Panasonic Type

#32-1445 \$64⁰⁰_(ea.)



Panasonic Type

#32-1450 \$89⁹⁵_(ea.)



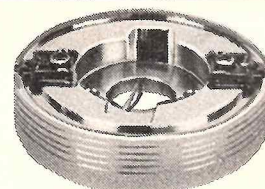
Panasonic Type

#32-1455 \$64⁰⁰_(ea.)



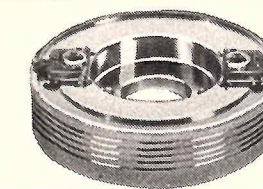
Panasonic Type

#32-1460 \$64⁰⁰_(ea.)



Panasonic/RCA Type

#32-470 \$59⁹⁵₍₁₋₃₎ \$54⁸⁰_(4-up)



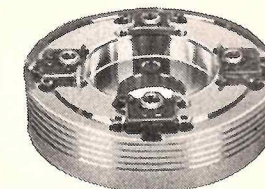
Panasonic/RCA Type

#32-490 \$59⁹⁵₍₁₋₃₎ \$54⁸⁰_(4-up)



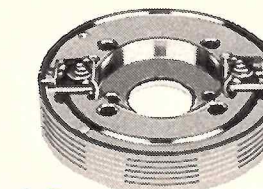
Panasonic/RCA Type

#32-180 \$39⁹⁵_(ea.)



Panasonic/RCA Type

#32-480 \$83⁹⁵₍₁₋₃₎ \$79⁸⁰_(4-up)

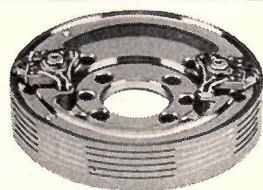


Panasonic Type

#32-500 \$59⁹⁵₍₁₋₃₎ \$54⁸⁰_(4-up)



VCR HEADS



Panasonic/RCA Type

#32-775 \$99⁹⁵_(ea.)



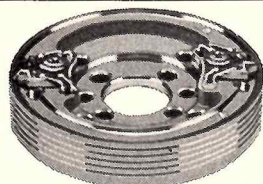
Panasonic/RCA Type

#32-160 \$44⁹⁵₍₁₋₃₎ \$39⁹⁵_(4-up)



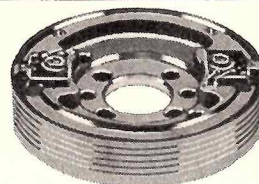
Panasonic/RCA Type

#32-765 \$109¹⁰_(ea.)



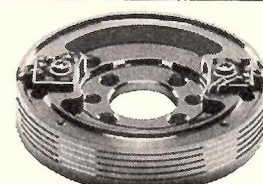
Panasonic/RCA Type

#32-770 \$99⁹⁵_(ea.)



Panasonic/RCA Type

#32-755 \$59⁹⁵_(ea.)



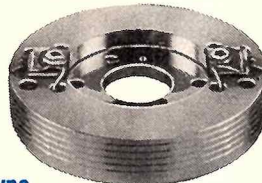
Panasonic/RCA Type

#32-760 \$59⁹⁵_(ea.)



Samsung Type

#32-1465 \$42⁵⁰_(ea.)



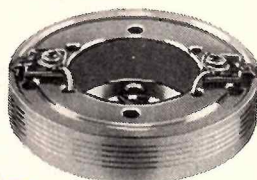
Sanyo Type

#32-1075 \$89⁰⁰_(ea.)



Sanyo Type

#32-1200 \$69⁹⁵_(ea.)



Sharp Type

#32-1065 \$69⁰⁰_(ea.)



Sharp Type

#32-440 \$75⁹⁵_(ea.)



Sony/Zenith Type

#32-625 \$54⁸⁰₍₁₋₃₎ \$49⁹⁵_(4-up)



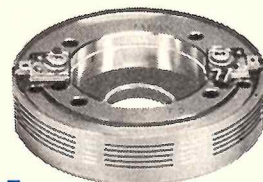
Sony/Zenith Type

#32-389 \$62⁹⁵₍₁₋₃₎ \$59⁹⁵_(4-up)



Sony/Zenith Type

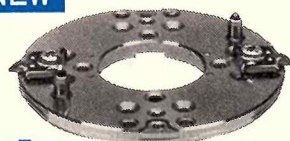
#32-390 \$62⁹⁵₍₁₋₃₎ \$59⁹⁵_(4-up)



Toshiba Type

#32-1470 \$49⁵⁰_(ea.)

NEW



Toshiba Type

#32-1825 \$42⁶⁶_(ea.)



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VCR TOOLS

VCR Adjustment Tools

RCA Type Head Positioning Tool

- Audio and control head positioning tool used to adjust position of head
- Replaces RCA #144387

#22-620 \$9⁹⁵ (ea.)

RCA Type Head Positioning Tool

- Audio and control head positioning tool used to adjust position of head
- Replaces RCA #148936

#22-625 \$8⁹⁵ (ea.)

RCA Type Adjustment Tool

- Tape transport adjustment tool used to adjust tape guide posts for equal top and bottom tape tension ■ Replaces RCA #144389

#22-630 \$10²⁵ (ea.)

RCA Type Back Tension Tool

- Special driver used to adjust back tension ■ Replaces RCA #155631

#22-710 \$10⁷⁵ (ea.)

Tension Adjustment Tool

- Used to adjust back tension and arm band, pressure roller tension, safety tab switch, and cassette down lock switch ■ Replaces RCA #144388

#22-800 \$12⁹⁵ (ea.)

JVC/Zenith Type Audio/Control Head Tool

- Audio and control head positioning tool ■ Replaces Zenith #868-93

#22-730 \$9⁸⁵ (ea.)

RCA Type RF Adjustment Tool

- Excellent tool for general purpose RF adjustment ■ Replaces RCA #146917
- 8 1/4" length

#22-765 \$4²⁵ (ea.)

Back Focus Alignment Tool

- Used to align the back focus adjustment in RCA camcorders

#22-920 \$4⁹⁵ (1-9) \$3⁹⁵ (10-up)

Camcorder Phillips Screwdriver

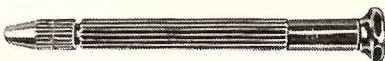
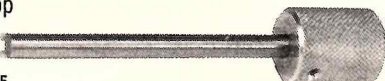
- Specially designed Phillips screwdriver used in camcorder servicing ■ Removes cabinet screws in RCA, Hitachi and other camcorders without damage ■ Three interchangeable Phillips bits: 2mm, 2.5mm and 3mm ■ 5" overall length
- Similar to RCA #175541

#22-900 \$7⁹⁵ (ea.)

Retaining Ring Remover

- New design for use with all VHS VCRs ■ Removes ring sizes 3mm-4mm ■ Panasonic #VFK0335

#22-1010 \$19⁹⁵ (ea.)



TENMA

Video Alignment Tape

- Professional quality VHS alignment tape ■ Ten minute program with NTSC color bars and 1KHz audio signal (1V peak to peak level) ■ Use when adjusting servo tracking, playback switching point, tape path alignment, audio/control head azimuth and height
- Made in USA

#32-1160 \$49⁹⁵ (ea.)

TENMA

Hi-Fi Alignment Tape

- Professional quality VHS alignment of tape ■ Use when testing and aligning the following: 1. Hi-Fi audio sensor 2. FM audio signal playback amplitude 3. FM head switching. Also includes longitudinal audio tracks along with color bar, RF sweep, white field and modulated ramp video programs.
- 40 minute tape ■ Made in USA

#32-1420 \$59⁹⁵ (ea.)

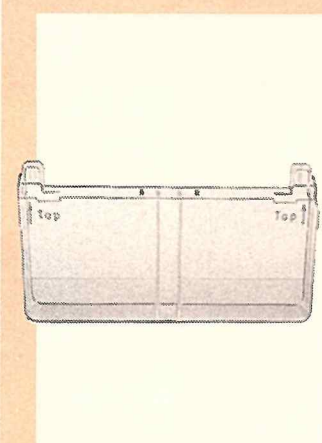


TENMA

VCR Service Cassette

- More rigid and heavy duty than most other service cassettes
- Made of clear high impact plastic
- Allows visual inspection of alignment and slippage of pressure roller, idler, loading post and guide post assemblies while VCR is operating ■ Gives access to belts, video head, idler tires, guide post and pinch rollers which enables you to clean VCR while machine is on
- Allows alignment of back tension and arm band ■ Made in West Germany

#32-1525 \$14⁹⁵ (ea.)



E-Clip Assortment

- Contains four of the most popular sizes: 1.5mm, 2.5mm, 3mm and 4mm
- 25 pieces of each size

#28-0040 ... \$1⁵⁵ (1-9 pkgs.) ... \$1¹⁵ (10 pkgs.-up)

VCR Washer Kit

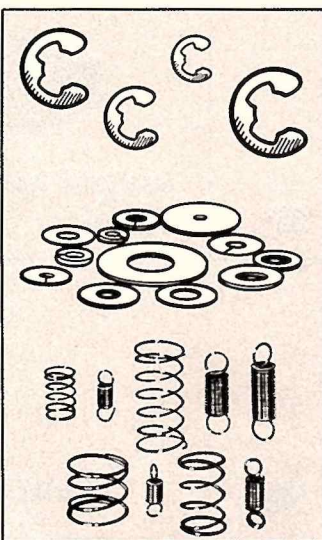
- These plastic washers are used throughout VCR mechanisms and must be replaced upon removal ■ Includes 175 standard and split washers

#32-1170 \$9⁹⁵ (kit)

VCR Spring Kit

- Contains 18 of the most popular springs used in many VCR idler assemblies

#32-1035 \$2¹⁰ (kit)



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Infrared Detector Probe

■ Ideal for testing infrared sources in VCRs ■ Probe design allows access to hard-to-reach areas ■ Test area glows pale orange when infrared is present ■ Heavy laminated plastic ■ Dimensions: 4 3/4" (W) x 3 3/4" (H)

#72-003.....\$6⁹⁵ (ea.)

Infrared Detector Card

■ Used for testing TV, VCR and other infrared remote controls ■ Test area will glow pale orange if infrared is present ■ A must for every service shop ■ Heavy laminated plastic ■ Dimensions: 3 1/2" (W) x 2 1/2" (H)

#72-005.....\$6⁹⁵ (ea.)

VCR Test Cable Kit

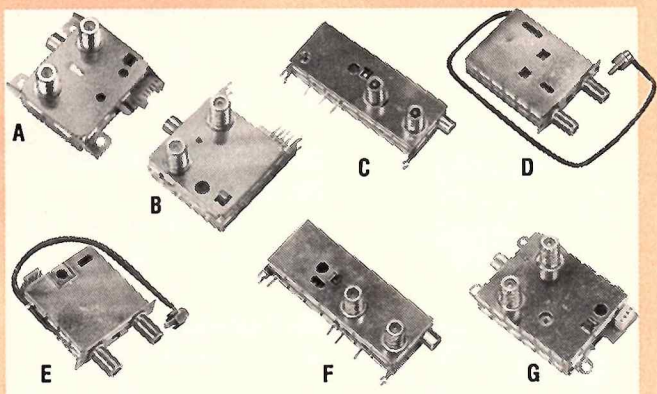
■ Set of four cables for servicing RCA VCRs ■ For model #s 375-385, VKT, VLT and VMT series

#32-955.....\$9⁹⁵ (kit)

VCR Molytone Grease

■ High temperature grease used in most VCR mechanisms ■ Replaces RCA #144590 ■ 2 oz.

#20-840.....\$8¹⁰ (1-5).....\$7²⁰ (6-11)



Replacement RF Modulators

■ Replaces original manufacturers' RF modulators

Figure	Order #	Type	Manufacturers #
A	32-1380	Sanyo	4-1164-031600
A	32-1385	Sanyo	4-1164-031620
B	32-1390	Emerson	MDF33-VA3409
C	32-1395	Emerson	MDF33-VA3422
D	32-1400	Toshiba	MSU-911
E	32-1405	Toshiba	MSU-951
F	32-1410	Sharp	RTUNE0149 GEZZ
G	32-1415	Mitsubishi	PU-57877-01

\$21⁹⁵ (ea.)

NEW



NEW



NEW



NEW



Guide to Professional VCR Cleaning

■ This 30 minute VHS cassette shows you how the professionals clean VCRs ■ Simple step-by-step instructions guide you through every phase of the cleaning process ■ For VHS and Beta

#32-2095.....\$29⁹⁵ (ea.)

Minor VCR Repair—Vol. I

■ This 45 minute instructional tape is your first step into the VCR repair business ■ Tape covers five different VHS models ■ The repairs shown require only simple hand tools ■ Learn repair of minor problems like: No rewind/fast forward, no playback or destruction of tapes

#32-3000.....\$39⁹⁵ (ea.)

Minor VCR Repair—Vol. II

■ This 40 minute tape probes a little deeper into some common VCR problems ■ The topics covered are the replacement of: Tape end sensors, cassette loading motor, reel tape sensors and RF modulators

#32-3005.....\$39⁹⁵ (ea.)

VCR Playback Test Tape

■ This 15 minute alignment tape will prove to be an important addition to your repair equipment inventory ■ Tape covers adjustment of the tape path and audio/control head alignment, head switching point, luminance/chroma circuit and tracking fix ■ Includes gray raster, NTSC color bars, convergence dots/grid and 30Hz audio tone

#32-3010.....\$24⁹⁵ (ea.)

Chemtronics



Chemtronics TF Pads

■ Pre-moistened pads saturated with TF solvent ■ Ideal for in-the-field work ■ Lint free ■ Great for cleaning magnetic tape heads, drive components, relays, PCBs, office equipment, and much more ■ TF solvent is safe for use on delicate plastics and quickly penetrates and removes oil, grease, dirt and other contaminants ■ Pad dimensions: 3" x 4" ■ Display packaged ■ 50 pads per package

#20-960.....\$17⁹⁰ (1-5 pkgs.).....\$16¹⁵ (6-11 pkgs.).....\$14⁵⁰ (12-23 pkgs.)



Chemtronics Mini Foam Swabs

■ Ideal for cleaning in tight spaces ■ Made of cellular urethane foam for maximum absorbency ■ Lint free and non-abrasive ■ Compatible with freon based solvents, alcohols and most other cleaning fluids ■ Foam will not fray, lint or crack ■ Flexible plastic handle allows you to clean hard to reach places ■ 2 3/4" length ■ 50 per package

#20-950.....\$10⁶⁰ (1-5 pkgs.).....\$9⁵⁵ (6-11 pkgs.).....\$8⁸⁰ (12-23 pkgs.)

FOR ADDITIONAL CHEMTRONICS VCR CLEANING AIDS SEE PAGE 57

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VCR PARTS

VCR Sensing Lamps

A. ■ Used in many Panasonic VCRs ■ Replaces Magnavox and Panasonic #XAMV0019, Philco and Sylvania #07-28817-303 ■ 6V, 150mA

#25-235 84¢₍₁₋₉₎ 74¢₍₁₀₋₉₉₎ 64¢_(100-up)

B. ■ Used in many Panasonic made VCRs ■ Replaces Panasonic #XAMV12S, RCA #144604, Philco and Sylvania #07-28777-294, Magnavox #18C002-15 and GE #EW41X32 ■ 6V, 150mA

#25-240 84¢₍₁₋₉₎ 74¢₍₁₀₋₉₉₎ 64¢_(100-up)

C. ■ Dial lamp used in many RCA, Panasonic and Sylvania VCRs ■ Replaces RCA #144075, Panasonic #XAMQ27P150W, Philco and Sylvania #07-28777-433 and GE #EW41X58 ■ 6V, 150mA

#25-245 85¢₍₁₋₉₎ 75¢₍₁₀₋₉₉₎ 65¢_(100-up)

D. ■ Used in JVC VCRs ■ Replaces JVC #PU49557-2 lamp ■ 8" lead wire with special connector ■ 12V

#32-635 \$1.43₍₁₋₉₎ \$1.28₍₁₀₋₉₉₎ \$1.05_(100-up)

E. Tape End Sensor

■ Senses end of tape ■ Used in many popular VCRs ■ Housing not included ■ Replaces RCA #161757, and Hitachi #5381681 ■ Five per package

#32-785 \$3.95_(pkg.)

F. Tape End Sensor with Housing

■ Used in many popular VCRs ■ Replaces RCA #161757 and Hitachi #5381681

#32-1165 \$1.40₍₁₋₉₎ \$1.10₍₁₀₋₉₉₎ 99¢_(100-up)

G. Sharp Type Sensing Lamp

■ Used in Sharp VCRs

#32-1230 \$2.15₍₁₋₉₎ \$1.65_(10-up)

H. Infrared 5mm LEDs

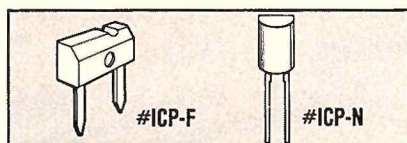
■ Replaces Sharp, Toshiba, Optron, Siemens and NEC ■ Forward voltage: 1.7V ■ Reverse voltage: 5V ■ Forward current: 100mA ■ Reverse current: 10µA ■ Available in 20° and 60° dispersion angles ■ Five per package

#25-475 (20°)

#25-480 (60°) \$2.85_(pkg.)

IC Protectors

■ Original IC protectors used in many brands of VCRs and camcorders like JVC, RCA, Hitachi, Zenith, and Sony



Order #	Current (A)	Price	
		(1-9)	(10-up)
ICP-F10	.4	\$.80	\$.65
ICP-F15	.6	.80	.65
ICP-F20	.8	.80	.65
ICP-F25	1	.80	.65
ICP-F38	1.5	.80	.65
ICP-F50	2	.80	.65
ICP-F75	2.7	.80	.65
ICP-N5	.25	.80	.65

Order #	Current (A)	Price	
		(1-9)	(10-up)
ICP-N10	.4	\$.80	\$.65
ICP-N15	.6	.80	.65
ICP-N20	.8	.80	.65
ICP-N25	1	.80	.65
ICP-N38	1.5	.80	.65
ICP-N50	2	.80	.65
ICP-N75	2.7	.80	.65

Replacement Type Photo Diodes, Transistors and Interrupters

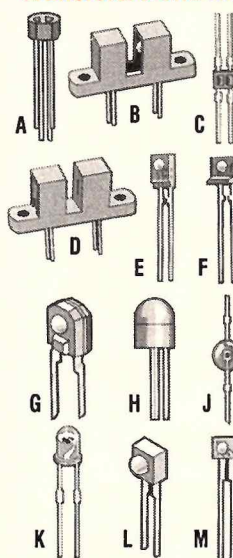


Fig. Order #	Type	Replaces Mfg #	(1-9)	Price (10-99)	(100-up)
Photo-Interrupters					
A 32-1010	Sharp	RH-PX0042 GEZZ	\$2.25	\$1.99	\$1.69
B 32-1905	Mitsubishi	268P00901	4.95	3.95	3.55
A 32-1580	Mitsubishi	268P02601	2.95	2.36	2.12
C 32-1585	Mitsubishi	ET-361463	2.95	2.36	2.12
B 32-1910	Panasonic	ON1102	4.95	3.95	3.55
D 32-1915	Panasonic	ON1105	4.95	3.95	3.55
A 32-1590	Panasonic	ON2160	2.95	2.36	2.12
B 32-1910	Sony	8-719-411-12	4.95	3.95	3.55
Photo-Diodes					
E 32-1955	Emerson	0021121050	1.49	1.19	1.07
E 32-1955	Sharp	RH-PX0099 GEZZ	1.49	1.19	1.07
E 32-1955	Sony	8-719-928-54	1.49	1.19	1.07
F 32-1945	Sharp	RH-PX0070PAZZ	2.49	1.99	1.79
G 32-1940	Sony	8-719-118-33	2.49	1.99	1.79
F 32-1950	Sony	8-719-902-96	1.49	1.19	1.07
Photo-Transistors					
H 32-1930	Hitachi	various	2.49	1.99	1.79
J 32-1935	Hitachi	5380132	1.49	1.19	1.07
K 32-1925	Panasonic	various	1.29	1.03	.93
L 32-1600	Fisher	401403990	2.95	2.36	2.12
M 32-1605	Hitachi	5381811	2.95	2.36	2.12
H 32-1595	Toshiba	70114345	2.95	2.36	2.12

Replacement Guidepost for Panasonic

■ Replacement for worn or broken guideposts
■ Replaces Panasonic #VXP0302

#32-1185 \$3.10₍₁₋₉₎ \$2.57_(10-up)

VCR Loading Gear Assembly Rebuild Kit

■ Replacements for the two gears that fail on the loading gear assembly
■ Used in many Panasonic, Quasar, Magnavox, RCA and Sylvania VCRs
■ Panasonic assembly #VXP0225, RCA #144207, Philco and Sylvania #07-28777-511, Quasar #44-90319A13 and GE #EW2X209

#32-435 \$7.55_(kit)

Mitsubishi Unit-Reel Idler Replacement

■ Replaces Mitsubishi #522P002010

#32-1475 \$9.95₍₁₋₉₎ \$8.95_(10-up)

NEC Replacement

■ Replaces NEC #16180801

#32-1220 \$8.50₍₁₋₉₎ \$6.95_(10-up)

Panasonic Replacement

■ Replaces #VXP-0581

#32-1130 \$5.25₍₁₋₉₎ \$4.95_(10-up)

Panasonic Replacement

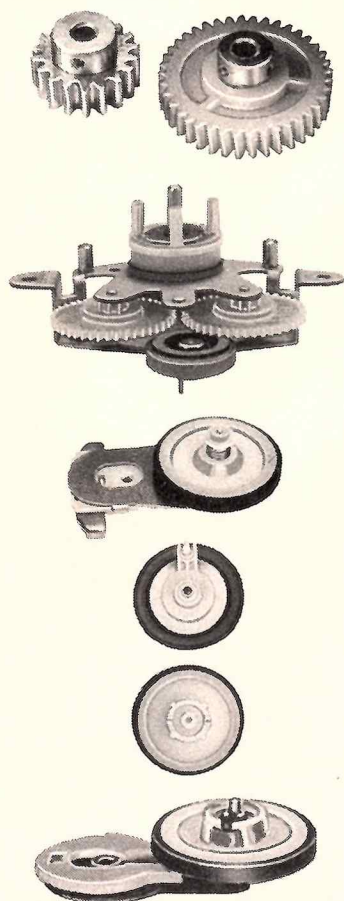
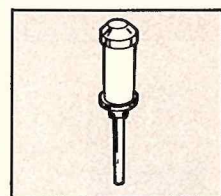
■ Replaces Panasonic #VXPS0116

#32-1105 \$2.50₍₁₋₉₎ \$2.15_(10-up)

Panasonic Replacement

■ Replaces Panasonic #VXP0521

#32-555 \$5.60₍₁₋₉₎ \$4.90_(10-up)



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Assemblies and Idlers

Panasonic Replacement

■ Replaces Panasonic #VXP0401
#32-810 \$1⁷⁵₍₁₋₉₎ \$1⁵⁰_(10-up)

RCA and Panasonic Replacement

■ Replaces RCA #144265 and Panasonic #VXP0213
#32-1370 \$4⁹⁵₍₁₋₉₎ \$4⁴⁵_(10-up)

RCA and Panasonic Replacement

■ Replaces RCA #144262 and Panasonic #VXP0171
#32-1365 \$4²⁵₍₁₋₉₎ \$3⁷⁵_(10-up)

RCA and Panasonic Replacement

■ Replaces Panasonic #VXP0344, RCA #148580, Magnavox #VXP0344, Philco and Sylvania #07-28977-415
#32-552 \$1⁶⁵₍₁₋₉₎ \$1³⁵_(10-up)

RCA and Panasonic Replacement

■ Replaces RCA #152674 and Panasonic #VXP0329
#32-815 \$1⁷⁵₍₁₋₉₎ \$1⁵⁰_(10-up)

RCA and Panasonic Replacement

■ Replaces RCA #152683, Panasonic #VXP0331, GE #EW2X762, and Curtis Mathes #B14B370322
#32-820 \$1⁷⁵₍₁₋₉₎ \$1⁵⁰_(10-up)

RCA and Panasonic Replacement

■ Replaces RCA #155739, Panasonic #VXPS0054 and GE #EW2X752
#32-1025 \$1⁴⁹₍₁₋₉₎ \$1²⁹_(10-up)

RCA and Hitachi Replacement

■ Replaces #150650, 6861482
#32-1125 \$5⁷⁵₍₁₋₉₎ \$5²⁵_(10-up)

RCA and Hitachi Replacement

■ Replaces RCA #164113 and Hitachi #6875372, 6865575 and 6866971
#32-800 \$3⁷⁰₍₁₋₉₎ \$3⁴⁰_(10-up)

RCA and Hitachi Replacement

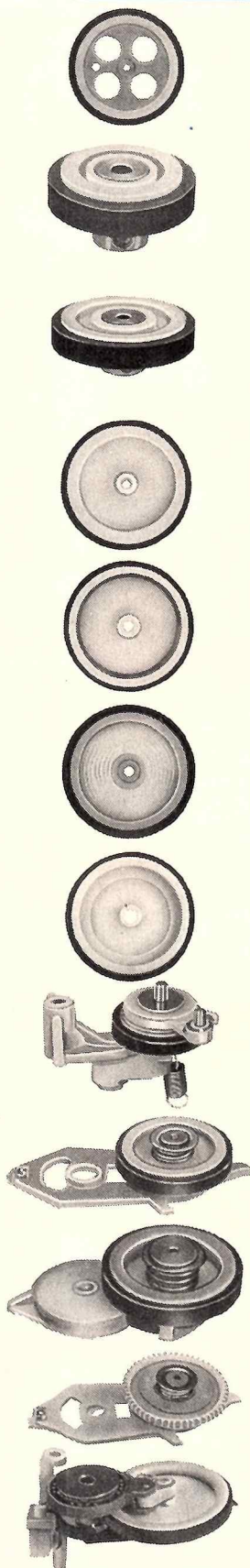
■ Replaces RCA #150614 and Hitachi #6861471
#32-825 \$3⁹⁵₍₁₋₉₎ \$3⁷⁵_(10-up)

Hitachi Replacement

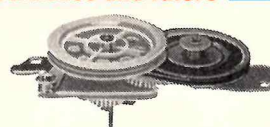
■ Replaces Hitachi #6886792 and RCA #177194
#32-1275 \$5¹⁰₍₁₋₉₎ \$4⁶⁰_(10-up)

Hitachi Replacement

■ Replaces Hitachi #6876043
#32-1225 \$9⁹⁵₍₁₋₉₎ \$8⁵⁰_(10-up)



Assemblies and Idlers



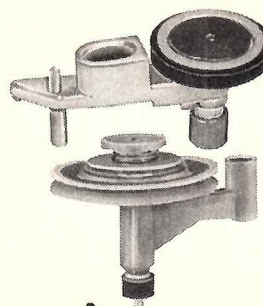
Hitachi Replacement

■ Replaces Hitachi #6886824 and RCA #177206
#32-1270 \$12⁵⁰₍₁₋₉₎ \$10²⁵_(10-up)



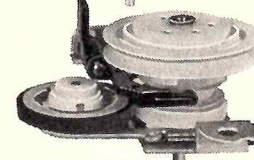
Hitachi Replacement Pulley

■ Replacement pulley for above assembly #32-1270 (above)
#32-1480 \$6⁵⁰₍₁₋₉₎ \$5⁹⁵_(10-up)



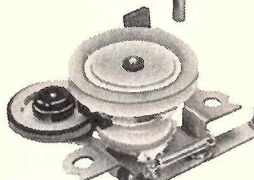
Hitachi Replacement

■ Replaces Hitachi #6413111
#32-1110 \$5⁹⁵₍₁₋₉₎ \$5⁵⁰_(10-up)



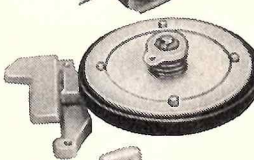
Sharp Replacement

■ Replaces Sharp #MLEVP 0001
#32-1235 \$9⁹⁵₍₁₋₉₎ \$8⁵⁰_(10-up)



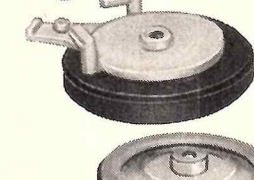
Sharp Reel Drive

■ Replaces Sharp #NPLYV0103 GEZZ
#32-1195 \$9⁹⁵_(ea.)



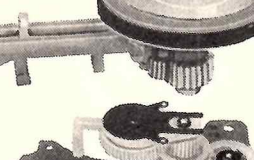
Sharp Replacement

■ Replaces Sharp #NPLYV0107 GEZZ
#32-1300 \$11¹⁰₍₁₋₉₎ \$10¹⁰_(10-up)



Sharp/Emerson/Goldstar Replacement

■ Replaces Sharp #NIDL0006 GEZZ
 ■ Also replaces Emerson #VCR870 and Goldstar #GHV1210m
#32-805 \$4⁹⁵₍₁₋₉₎ \$4⁵⁰_(10-up)



Sharp Replacement

■ Replaces Sharp #NIDL0005 GEZZ
#32-795 \$4⁹⁵₍₁₋₉₎ \$4⁵⁰_(10-up)



Sharp Replacement

■ Replaces #NPLY-V0051
#32-1115 \$4⁶⁵₍₁₋₉₎ \$4²⁵_(10-up)



Sanyo/Fisher Replacement

■ Reel drive pulley ■ Replaces Fisher and Sanyo #143-0-662T-01202
#32-1190 \$11⁹⁵_(ea.)

Sanyo/Fisher Type Lever Assembly

■ Replaces #143-0-741T-20001
#32-910 \$5⁵⁰₍₁₋₉₎ \$4⁹⁵_(10-up)



Assemblies and Idlers

Sanyo/Fisher Replacement

Replaces Fisher #143-0-662T-01201

#32-1020 \$11⁹⁵_(ea.)

Sanyo/Fisher Replacement

■ Replaces Fisher #143-0-662T-10350

#32-1015 \$11⁹⁵_(ea.)

Sanyo/Fisher Replacement

■ Replaces #143-0-551T-01600

#32-1135 \$2²⁵₍₁₋₉₎ \$1⁷⁵_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-662T-14730

#32-1240 \$10¹⁵₍₁₋₉₎ \$8⁷⁰_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-662T-15620

#32-1250 \$7⁵⁰₍₁₋₉₎ \$6⁵⁰_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-5475-00200

#32-1255 \$5⁹⁵₍₁₋₉₎ \$4⁵⁰_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-4804-00100

#32-1030 \$1⁸⁵₍₁₋₉₎ \$1⁷⁵_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-4204-00300 and #143-0-4204-00400

#32-830 \$7⁹⁵₍₁₋₉₎ \$7⁵⁰_(10-up)

Fisher Replacement

■ Replaces Fisher #143-0-4904-00900

#32-990 \$7⁹⁵₍₁₋₉₎ \$7⁵⁰_(10-up)

Toshiba Replacement

■ Replaces Toshiba #70326583 and M-4500

#32-1260 \$5⁵⁰₍₁₋₉₎ \$4⁵⁰_(10-up)

Toshiba and Akai Replacement

■ Replaces #MI-361964 and BL-353110

#32-1180 \$5⁵⁰₍₁₋₉₎ \$4⁵⁰_(10-up)

Akai Replacement

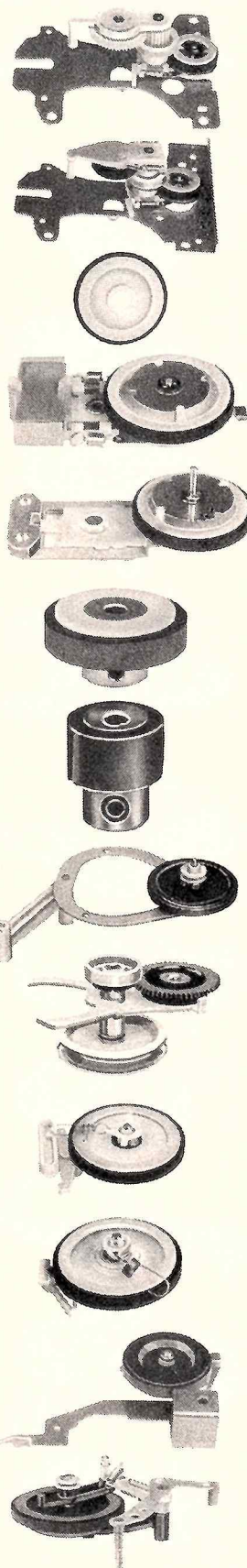
■ Replaces Akai #BV-321761

#32-1245 \$7⁹⁵₍₁₋₉₎ \$6⁹⁵_(10-up)

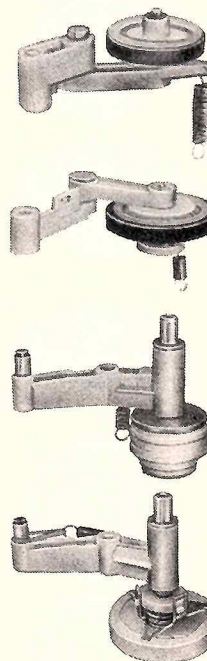
Akai Replacement

■ Replaces Akai #MI-327773

#32-1265 \$8⁵⁰₍₁₋₉₎ \$6⁹⁵_(10-up)



JVC Type Clutch Assemblies



■ Used in JVC, Kenwood, NEC, and Sansui VCRs ■ Replaces JVC #PU51402A

#32-915 \$2⁵⁵₍₁₋₉₎ \$2³⁵_(10-up)

■ Used in JVC, Kenwood, Sansui, and Dual VCRs ■ Replaces JVC #PU48967B

#32-920 \$4²⁵₍₁₋₉₎ \$4⁰⁰_(10-up)

■ Used in many JVC VCRs ■ Replaces JVC #PU49280

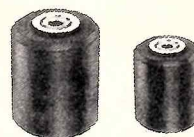
#32-925 \$9⁸⁵₍₁₋₉₎ \$9⁵⁰_(10-up)

■ Used in several JVC VCRs ■ Replaces JVC #PU47752

#32-550 \$6⁹⁵₍₁₋₉₎ \$6⁴⁰_(10-up)

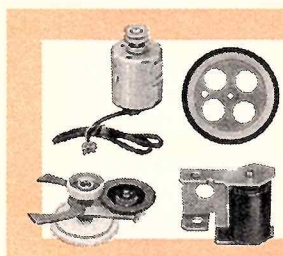
VCR Pinch Rollers

Order # Replacement For	Roller		Bearing		
	Outside Diameter	Height	Inside Diameter	Outside Diameter	Height
32-725 Panasonic, RCA, Sylvania, Philco, Quasar, Magnavox, J.C. Penney, GE	18mm	23mm	3mm	7mm	3mm
32-865 Panasonic	16mm	23mm	3mm	7mm	3mm
32-870 JVC, Zenith	15mm	21mm	3mm	8mm	4mm
32-875 Sanyo, Fisher, Sears	15mm	19mm	4mm	9mm	4mm
32-880 Sharp	18mm	20mm	3mm	8mm	4mm
32-885 JVC	17mm	21mm	3mm	8mm	4mm
32-890 Mitsubishi	15mm	18mm	3mm	8mm	4mm
32-895 Toshiba	15mm	17.5mm	4mm	9mm	4mm
32-900 Sony, Zenith	16mm	19mm	3mm	9mm	4mm
32-905 Hitachi, GE, RCA, Sears	15.5mm	22mm	3mm	8mm	4mm



■ No mixing of sizes for quantity pricing

\$6⁵⁰₍₁₋₉₎ \$5⁹⁵_(10-up)



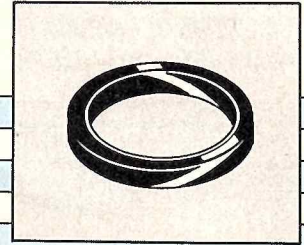
**FOR ORIGINAL
MANUFACTURERS' VCR PARTS
SEE PAGES 104 AND 105**



Replacement Idler Tires

Don't replace entire idler assemblies, clutch and pulley assemblies, or take-up assemblies; when the only part you actually need is the defective rubber tire. You can do VCR repairs much faster and at a fraction of the cost, by buying idler tires from MCM.

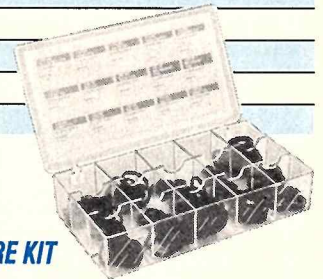
Order #	Replacement For:	Dimensions	Other Applications
32-1425	JVC Reel Disk #PU48907B	43mm (O.D.) x 4mm (I.D.) x 2mm (width)	
32-660	Sanyo Assembly #143-0-662T-01201	17.28mm (O.D.) x 12.70mm (I.D.) x 3.26mm (width)	
32-715	Sharp Assembly #NIDL-0005 GEZZ	34.5mm (O.D.) x 29.5mm (I.D.) x 4mm (width)	
32-750	Sharp Assembly #NIDL-0006 GEZZ	31.13mm (O.D.) x 23.5mm (I.D.) x 3mm (width)	
32-952	Sharp Assembly #NPLYV-0107 GEZZ	25.25mm (O.D.) x 19mm (I.D.) x 3.35mm (width)	
32-1315	Sharp Assembly #NPLYV0111 GEZZ	25.79mm (O.D.) x 19.3mm (I.D.) x 3.18mm (width)	
32-655	Fisher Assembly #143-0-4204-00100	32mm (O.D.) x 26mm (I.D.) x 3mm (width)	Fits NEC assembly #1618080, Panasonic #VXP0521, #VXP0331
32-705	Fisher Assembly #143-0-4204-00400	25mm (O.D.) x 21mm (I.D.) 2.7mm (width)	Fits in Sears #564.53071450
32-650	Panasonic Assembly #VXP0171 and 174	35.57mm (O.D.) x 22.86mm (I.D.) x 4.98mm (width)	Fits RCA idler wheel #144262 and 144263, Sylvania #07-28777-445 and #07-28777-447, Philco #07-28777-445 and #07-28777-447, Magnavox #70C002-6 and #70C002-8, and Quasar #49-90369A22
32-645	Panasonic Assembly #VXP0213	19.8mm (O.D.) x 14mm (I.D.) x 4mm (width)	Fits RCA assembly #144265, Sylvania #07-28777-442, Philco #07-28777-422, Magnavox #70C002-4 and Quasar #49-90369A18
32-720	RCA and Panasonic	12mm (O.D.) x 7.7mm (I.D.) x 3.5mm (width)	Fits idler assembly #152422 for RCA or idler assembly #VXPS0047 for Panasonic
32-560	RCA and Hitachi	26mm (O.D.) x 20mm (I.D.) x 4mm (width)	Fits on the take-up pulley of many Hitachi and RCA VCRs. Used in RCA models: VJT250, VJT275, VKP325, VKP326, VKP385, VKP425, VKP430, VKP500
32-710	RCA Assembly #150650	17.4mm (O.D.) x 11.7mm (I.D.) x 3mm (width)	Fits Hitachi #6861482, 6861481
32-745	RCA Assembly #164113	26.5mm (O.D.) x 20mm (I.D.) x 3.5mm (width)	Fits RCA idler assembly #164113, Hitachi #6875372, 6865575
32-940	RCA Assembly #150614	29mm (O.D.) x 23mm (I.D.) x 4mm (width)	Fits Hitachi #6861471
32-945	RCA Assembly #155739	34.2mm (O.D.) x 24mm (I.D.) x 3mm (width)	Fits Panasonic #VXPS0054
32-950	RCA Assembly #152674	35.4mm (O.D.) x 29.4mm (I.D.) x 3mm (width)	Fits Panasonic #VXP0329, VXP0344
32-1485	Fisher Assembly #143-0-4204-00700	28.18mm (O.D.) x 23.10mm (I.D.) x 3mm (width)	
32-1490	Sharp Assembly #NPLYV0103 GEZZ	25.88mm (O.D.) x 19.26mm (I.D.) x 3.13mm (width)	
32-1495	Toshiba Assembly #70326583	35.40mm (O.D.) x 24.66mm (I.D.) x 3.10mm (width)	Fits Toshiba #70326575
32-1500	Fisher Assembly #143-0-662T-14730	31.35mm (O.D.) x 26.60mm (I.D.) x 3mm (width)	Fits Fisher #613-037-4875
32-1505	Toshiba Assembly #MI-361964	31.85mm (O.D.) x 25.85mm (I.D.) x 3.6mm (width)	Fits Akai #BL-353110
32-1510	Panasonic Assembly #VXP0581	37.85mm (O.D.) x 31.75mm (I.D.) x 4.15mm (width)	
32-1515	Fisher Assembly #143-0-662T-15620	28.77mm (O.D.) x 23.50mm (I.D.) x 2.95mm (width)	
32-1520	Mitsubishi Assembly #522P002010	15.33mm (O.D.) x 10.23mm (I.D.) x 2.95mm (width)	



- Minimum five pieces each
- Sorry—no mixing of sizes for quantity pricing

70¢₍₅₋₉₎ 60¢₍₁₀₋₉₉₎ 50¢_(100-up)

SEE PAGE 202 FOR OUR VCR IDLER TIRE KIT



VCR Belts

- See belt cross reference chart to the right

Order #	I.C. (")	Thickness (")	Width (")	Price	
				(1-9)	(10-up)
42-055	3.125	.079	—	\$5.55	\$5.50
42-085	4.438	.075	—	.55	.50
42-190	6.50	.075	—	.45	.40
42-240	8.50	.046	—	.50	.35
42-275	13.625	.079	—	.85	.70
42-305	9.813	.062	—	.45	.40
42-370	14.90	.093	—	.75	.60
42-625	12.688	.022	.318	.80	.75
42-980	6.50	.062	—	.50	.35
42-995	2.50	.060	—	.55	.50
42-1040	9.00	.080	—	1.75	1.45
42-1045	6.75	.025	.175	.70	.50
42-1050	3.125	.053	—	.50	.35
42-1150	2.6875	.064	—	.55	.50
42-1165	2.9375	.090	—	.60	.55
42-1170	3.1875	.078	—	.60	.55
42-1160	5.5625	.055	—	.55	.50
42-1155	14.125	.074	—	.95	.80

VCR Belt Cross Reference

RCA #	Panasonic # Magnavox #	Sylvania # Philco #	Quasar #	Sanyo # Fisher #	Order #
144206	VDV0094C	07-28778-426	—	—	42-625
144258	VDV0072	07-28777-609	42-9034A36	—	42-370
144259	VDV0074	07-28777-510	42-90348A37	—	42-055
144260	VDV0075	07-28777-694	42-90348A47	—	42-240
144261	VDV0076	07-28777-645	42-90348A43	—	42-240
144267	VDV0092	07-28777-610	—	—	42-305
144605	VDV0094A	07-28777-608	—	—	42-625
144606	VDV0094B	07-28778-426	—	—	42-625
146968	VDVSD012C	07-28816-459	—	—	42-625
146969	VDVSD012D	07-28816-469	—	—	42-625
148664	VDV0122	07-28817-477	42-90428A84	—	42-085
152412	VDV0123	07-46100-462	42-90428A85	—	42-275
152413	VDV0216	07-28977-500	42-90428A28	—	42-190
—	—	—	—	143-2-661T-68800	42-995
—	VDVS0026	—	—	—	42-980
—	—	—	—	143-2-7504-00400	42-1040
—	—	—	—	143-2-7504-00600	42-1040
174757	—	—	—	—	42-1045
180460	—	—	—	—	42-1050
156679	—	—	—	—	42-1150
157065	—	—	—	—	42-1155
157053	—	—	—	—	42-1160
177208	—	—	—	—	42-1165
157062	—	—	—	—	42-1170

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In addition to our full line of genuine RCA/GE replacement parts, MCM now stocks many original JVC, Panasonic, Sanyo/Fisher, Technics, Mitsubishi and Sony replacement parts for VCRs, camcorders, CD players and other audio equipment!

**FOR OUR LISTING OF ORIGINAL PANASONIC
MICROWAVE OVEN PARTS SEE PAGE 173**



Mfg #	Description	Order #	Price (1-9)	(10-up)
Emerson				
0000800010	Photo Transistor	32-3045	\$.95	—
432-021A	Cam Gear	32-3025	1.20	—
435-042A/B	Cam Gear	32-3030	2.05	—
439P007010	Mode Switch	32-3040	7.95	—
850A200004	Idler	32-3050	3.50	—
850A200005	Clutch	32-3035	12.50	—
850A600039	Limit Post Assy.	32-2090	.69	—
850P600022	Capstan Belt	42-1520	1.95	—
850P600124	Reel Belt	42-1530	.55	—
850P600125	Loading Belt	42-1525	.55	—
Fisher				
R-W770735	Transformer	32-2010	27.25	—
4-320T-25900	Transformer	32-1985	16.15	—
4-527T-28871	Motor	32-2005	37.00	—
4-527T-34600	Spindle Motor	32-2035	19.50	—
4-527T-34800	Spindle Motor	32-2030	11.75	—
4-202V-15200	Sensor	32-2055	4.75	—
4-2329-70330	Output Relay	26-595	12.95	—
4-2329-70441	Output Relay	26-590	12.95	—
4-5254-00080	Motor	32-2000	27.85	—
4-5254-00130	Capstan Motor	32-1335	85.05	—
4-5254-00200	Loading Motor	32-1355	28.00	—
4-5254-00220	Loading Motor	32-1345	25.00	—
4-5254-00250	Loading Motor	32-1350	26.50	—
4-5254-00300	Loading Motor	32-1340	28.00	—
4-5279-71720	Spindle Motor	32-1545	11.50	—
134-0-4009-04001	Pick-up Assy.	32-2050	119.00	—
134-0-4009-04500	Laser Assy.	32-1560	94.95	—
4-6129-70712	Bulb	25-525	3.45	3.35
4-6129-70714	Bulb	25-545	2.79	2.69
4-6129-70716	Bulb	25-550	3.15	3.05
4-6129-70718	Bulb	25-555	3.35	3.25
4-6129-70724	Bulb	25-560	4.15	4.05
143-0-545T-01701	Pinch Roller	32-1320	16.50	15.50
143-0-545T-02520	Pinch Roller	32-1325	16.95	15.50
143-0-545T-02830	Pinch Roller	32-1330	16.25	15.50
143-0-545T-02000	Pinch Roller	32-1975	15.25	—
143-0-771T-08900	Lower Drum	32-1970	55.00	—
143-0-581T-13400	Gear Assy.	32-1980	11.15	—
141-0-1939-27420	Lamp Assy.	25-565	6.35	6.25
141-2-5619-02000	Belt	42-1420	1.45	1.25
141-2-561T-04001	Belt	42-1430	2.15	1.95
141-2-561T-07200	Belt	42-1440	6.10	5.90
141-2-564T-09200	Belt	42-1455	1.85	1.70
141-2-564T-16400	Belt	42-1465	2.45	2.25
141-2-5649-21200	Belt	42-1445	.75	.69
141-2-5649-27100	Belt	42-1500	1.25	1.05
141-2-5649-28100	Belt	42-1450	1.20	1.05
143-0-822T-02100	Tape Guide	32-2080	14.95	—
143-0-3404-02900	Dew Sensor	32-2075	8.75	—
143-2-564T-03300	VCR Belt	42-1180	.95	.75
143-2-564T-03400	VCR Belt	42-1175	.95	.75
143-0-4104-00100	Reel Assy.	32-1570	10.95	9.95
143-0-4104-00200	Reel Take-up	32-1575	14.50	13.50
143-0-4204-00200	Winder Assy.	32-1565	7.50	6.95
143-0-4204-00400	Idler	32-1290	11.70	10.70
143-0-4204-00700	Idler	32-1000	6.95	6.50
143-0-4604-00700	Pinch Roller	32-1375	24.50	—
143-0-4904-02400	Idler	32-995	10.50	9.50
143-0-5104-04200	Clutch	32-1550	15.40	—
143-0-7304-08900	Complete Stage	32-2070	55.00	—
143-2-7304-17300	Push Switch	32-2085	3.50	—
143-2-7304-21700	Flap Gear	32-1555	.71	—
143-2-7504-00700	Belt	42-1205	1.49	1.29
143-2-7504-01100	Belt	42-1200	1.89	1.69
143-2-4904-01300	Loading Gear	32-1360	1.20	1.10
143-2-7504-00300	VCR Belt	42-901	1.80	1.55
143-2-7504-00400	VCR Belt	42-1040	1.75	1.45
143-2-7504-00500	VCR Belt	42-1185	1.49	1.29
143-2-7504-00800	VCR Belt	42-1190	1.29	1.09
143-2-7504-01000	VCR Belt	42-905	1.85	1.60

Emerson.

SONY
ZENITH

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Technics™

MITSUBISHI
Panasonic.

SHARP

JVC

Mfg #	Description	Order #	Price (1-9)	(10-up)
Fisher				
610-009-5632	Relay	32-2020	\$ 8.45	—
610-013-6397	Relay	32-2025	17.95	—
613-017-1078	Capstan Motor	32-2015	49.95	—
613-38-2573	Drum Complete	32-1960	165.00	—
613-073-8981	Pinch Roller	32-1965	14.80	—
613-083-7110	RF Modulator	32-1540	37.50	—
613-073-0473	RF Modulator	32-2065	44.00	—
620-030-4320	Motor	32-2060	17.50	—
620-128-6755	Belt	42-1470	1.40	1.20
620-128-6823	Belt	42-1475	1.40	1.20
621-010-6259	Cylinder Assy.	32-1990	165.00	—
632-259-2056	Motor	32-1995	12.80	—
JVC				
E69879-002	Belt	42-1210	1.25	1.05
E73463-001	Belt	42-1215	1.25	1.05
E73463-002	Belt	42-1220	1.45	1.25
ELP3104-B100V	Pilot Lamp	25-510	2.75	2.65
ELP3105-8060A	Lamp	25-515	2.75	2.65
ELP4101-001	Lamp	25-540	2.75	2.65
PU58645-1-4	Idler Arm	32-1870	6.50	—
PU55373	Clutch	32-1875	4.50	—
VKS4151-00D	Idler Arm	32-1865	3.95	—
YU40272-3	A/V Cable	32-1880	16.50	15.50
Optima-3	Pick-up Assy.	32-1855	89.95	—
Optima-4S	Pick-up Assy.	32-1860	89.00	—
Mitsubishi				
522B017010	Idler	32-1535	3.50	2.95
Panasonic				
SOAD70A	Optical Pick-up	35-380	89.95	—
SOAD10A	Optical Pick-up	35-395	89.95	—
SOAD20A	Optical Pick-up	35-400	89.95	—
SOAD100A	Optical Pick-up	35-405	99.95	—
SOAD101A	Optical Pick-up	35-410	84.00	—
SODD100Z	Optical Pick-up	35-415	84.00	—
SOALP320-KMZ	Optical Pick-up	35-385	89.95	—
SOALP1200-KM	Optical Pick-up	35-390	89.95	—
SRGB007N02	Belt	42-1485	1.69	—
SRGB007N03	Belt	42-1480	1.69	—
VDGS0200	Sector Gear (5 per bag)	32-1610	1.75	—
VDP1042	Motor Pulley	32-1615	4.50	—
VDV0072-1	Belt	42-1300	1.75	—
VDV0074-1	Belt	42-1305	.79	—
VDV0075	Belt	42-1310	.89	—
VDV0076	Belt	42-1315	1.25	—
VDV0092	Belt	42-1320	.99	—
VDV0094A	Belt	42-1325	3.95	—
VDV0094B	Belt	42-1330	3.95	—
VDV0094C	Belt	42-1335	3.95	—
VDV0122	Belt	42-1340	.85	—
VDV0135	Belt	42-1345	1.75	—
VDV0149	Belt	42-1350	.79	—
VDV0152	Belt	42-1355	.45	—
VDV0217	Belt	42-1360	.79	—
VDV0218	Belt	42-1365	.79	—
VDVS0012D	Belt	42-1370	2.95	—
VDVS0020	Belt	42-1375	1.50	—
VDVS0026	Belt	42-1380	1.75	—
VDVS0030	Belt	42-1385	1.95	—
VDVS0043	Belt	42-1390	.79	—
FLA0003B	Power Cord	23-245	54.95	—
MC4D0016F	Power Cord	23-250	32.95	—
SFGB321-1	Belt	42-1490	8.45	—
SJY90080-1	Belt	42-1495	4.95	—
VDVS0047	Belt	42-1395	.95	—
VEMS0099	Loading Motor	32-1620	8.95	—
VESS0016	Switch	32-1625	5.95	—
VKUW0071	Eye Cap	32-1630	2.75	—



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ORIGINAL REPLACEMENT PARTS



Mfg #	Description	Order #	(1-9)	Price (10-up)
Panasonic				
VLL0021	Lamp	32-1635	\$1.10	—
VSSS0052	Switch	32-1640	2.25	—
VXLS0081	Arm	32-1645	15.95	—
VXLS0243	Roller	32-1650	10.95	—
VXP0329	Idler	32-1655	1.95	—
VXP0331	Idler	32-1660	1.95	—
VXP0344	Idler	32-1665	2.50	—
VXP0401	Idler	32-1670	1.50	—
VXP0463	Idler	32-1675	6.95	—
VXP0518	Roller	32-1680	11.95	—
VXP0521	Idler	32-1685	5.25	—
VXP0599	Clutch Gear	32-1690	.99	—
VXP0675	Idler	32-1695	1.75	—
VXPS0054	Idler	32-1700	1.95	—
VXPS0069	Idler Frame	32-1705	1.75	—
VXPS0075	Idler	32-1710	3.95	—
VXPS0076	Idler	32-1715	1.50	—
VXPS0116	Idler Frame	32-1720	2.95	—
VXPS0134	Gear	32-1725	4.75	—
VXPS0182	Gear	32-1730	1.95	—
VXZS0059	Tension Band	32-1735	2.25	—
XUEV3VW	Clip (5 per bag)	32-1740	1.00	—
XUEV4VW	Clip (5 per bag)	32-1745	.75	—
XWV3A54	Washer (5 per bag)	32-1750	.75	—
XWV3D6	Washer (5 per bag)	32-1755	1.00	—
YEAL01110	Pilot Lamp	25-535	2.95	—

Sanyo				
4-527V-01100	DC Motor	32-2045	18.95	—
4-529V-10800	Reel Motor	32-2040	19.50	—

Sharp				
NBLTK0113AFZZ	Belt	42-1260	1.59	1.39
RLMPM0175AFZZ	Lamp	25-520	1.59	1.39
QSW-R0010GEEZ	Switch	32-1285	12.50	11.95

Sony				
BHF-1100D	Capstan Motor	32-430	37.80	33.55
32-430	Harness for BHF-1100D	32-432	3.45	—
A-6759-344-A	Pinch Roller	32-850	10.95	—
A-6750-125-D	Pinch Roller	32-1840	39.95	—
X-3725-121-1	Eye Cap	32-1835	3.95	—

Mfg #	Description	Order #	Price	
			(1-9)	(10-up)
Sony				
3-653-387-00	Belt	42-1265	\$ 1.25	\$ 1.05
3-657-035-XX	Belt	42-1270	1.25	1.05
3-668-785-00	Belt	42-1275	1.25	1.05
3-668-946-00	Belt	42-1280	1.25	1.05
3-671-098-01	Belt	42-1415	1.25	1.05
4-921-022-01	Pulley	32-1845	.99	—
1-463-771-11	Tuner	32-1850	74.95	—

Toshiba				
70123095	RF Converter	32-1885	39.50	—
70326449	Gear Assy.	32-1895	1.95	—
70326571	Motor Assy.	32-1890	31.85	—
70333184	Gear Assy.	32-1900	4.80	—

Zenith				
832-301	Belt	42-1400	1.19	—
832-302	Belt	42-1405	.47	—
832-320-01	Belt	42-1410	.85	—
834-160	Gear	32-1760	.34	—
834-163	Gear	32-1765	.92	—
834-198-03	Gear	32-1770	32.49	—
834-222-02	Gear	32-1775	35.00	—
861-646-04	Clutch	32-1780	30.00	—
885-1017-01	RF Converter	32-1785	46.63	—
942-308	Sensor	32-1790	11.78	—

Technics Output IC		Price (ea.)	
Order #		Price (ea.)	Order #
SVI1001A	\$18.50	SVI3102B	\$35.00
SVI2003	24.50	SVI3103	44.00
SVI2003A	24.50	SVI3104C	44.00
SVI2004A	67.00	SVI3105A	69.00
SVI2103A	39.95	SVI3105B	65.00
SVI2104	65.00	SVI3203	43.00
SVI2105A	48.00	SVI3204	44.00
SVI3001	58.50	SVI3205	49.00
SVI3004	59.00	SVI3206	44.00
SVI3100	24.50	SVI3206A	42.00
SVI3100A	24.30	SVI4003	41.00
SVI3100B	22.80	SVI4004	43.00
SVI3102	29.95		

Original **RCA** **Top 40 Moving Parts**

FOR ADDITIONAL RCA, GE AND SK PRODUCT LISTINGS SEE PAGES 8-11

Order #	Description	Price	
		(1-9)	(10-up)
146823	Transistor	\$12.23	\$11.00
146857	IC	15.40	13.86
149703	Module MSC013RA	81.23	73.10
153671	Capacitor	15.97	14.38
153875	IC Kit	16.20	14.58
154493	IHVT Kit	70.55	63.49
154494	IHVT Kit	76.00	68.40
155619	IHVT Kit	81.08	72.97
155616	Transmitter	47.48	42.73
157053	Belt	1.33	1.15
157061	Belt	1.12	.96
157062	Belt	1.12	.96
158672	IHVT	46.93	42.23
160026	Motor	58.22	52.40
160879	IC	28.99	26.09
163818	Circuit Kit	10.19	9.17
163872	Motor	46.85	42.16
163879	Belt	.70	.59
163880	Belt	.70	.59
163883	Head Kit	74.58	67.12
163895	Belt	1.21	1.04
164113	Arm	4.21	3.71
164599	Transistor	13.12	11.81
164719	Module MSC026D	80.33	72.29
173082	IC	9.04	8.14

Order #	Description	Price	
		(1-9)	(10-up)
173916	Transmitter	\$43.45	\$39.11
176342	Module MTT004A	101.55	91.40
177222	Head Kit	87.68	78.91
178558	Module MTT002B	102.52	92.27
179585	Circuit	78.60	70.74
179732	IC	17.78	16.00
190483	Transistor	9.13	8.22
192543	Circuit	56.17	50.55
193082	IC	20.54	18.49
194216	Circuit	326.03	293.42
199095	VCR Belt Kit	3.96	3.48
199332	VCR Belt Kit	8.97	8.07
199333	VCR Belt Kit	10.27	9.24
199334	VCR Belt Kit	17.30	15.55
199335	VCR Belt Kit	5.16	4.54
199336	VCR Belt Kit	5.25	4.62
199337	VCR Belt Kit	11.65	10.49
199344	Maintenance Kit	21.96	—
199345	Maintenance Kit	19.43	—
199346	Maintenance Kit	14.34	—
199347	Belt Kit	4.13	—
EP77X0030	HV-Transformer	77.18	69.46
EP77X0045	HV-Transformer	80.00	—
EW72X0081	Load Motor	8.08	7.11
EW77X0027	Transformer	50.72	45.65



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BELTS

VCR Belt Kits ■ See belt cross reference below

Order #	Qty of Belts in Kit	Price (1-9)	Price (10-up)	Order #	Qty of Belts in Kit	Price (1-9)	Price (10-up)	Order #	Qty of Belts in Kit	Price (1-9)	Price (10-up)	Order #	Qty of Belts in Kit	Price (1-9)	Price (10-up)	Order #	Qty of Belts in Kit	Price (1-9)	Price (10-up)
42-871	6	\$4.35	\$3.85	42-880	6	\$4.25	\$3.95	42-889	4	\$1.15	\$.95	42-930	5	\$2.10	\$1.80	42-1125	3	\$2.45	\$2.15
42-872	5	3.25	2.95	42-881	6	1.95	1.75	42-890	8	4.45	3.95	42-940	5	2.45	2.15	42-1130	3	2.45	2.15
42-873	8	4.45	4.20	42-882	8	2.75	2.55	42-891	9	4.50	4.00	42-1085	6	1.95	1.70	42-1135	3	2.45	2.15
42-874	6	3.95	3.65	42-883	6	1.95	1.75	42-892	4	1.50	1.25	42-1090	7	4.25	3.95	42-1140	2	1.95	1.75
42-875	6	4.50	3.95	42-884	3	.85	.75	42-893	2	.90	.80	42-1095	10	4.95	4.55	42-1145	2	1.45	1.25
42-876	8	4.35	3.85	42-885	7	2.85	2.55	42-894	11	4.85	4.35	42-1100	10	5.50	5.25	42-1150	2	1.15	1.95
42-877	7	3.65	3.20	42-886	4	1.50	1.25	42-900	5	1.95	1.70	42-1105	6	2.45	2.15	42-1460	NEW	3.45	3.15
42-878	5	1.95	1.75	42-887	5	2.25	2.00	42-910	6	2.80	2.60	42-1110	6	2.45	2.15	42-1505	NEW	1.85	1.65
42-879	1	.75	.60	42-888	3	.95	.80	42-920	8	4.25	3.95	42-1115	9	5.50	5.25	42-1510	NEW	1.75	1.50

Manufacturer Model #	Order #	Manufacturer Model #	Order #	Manufacturer Model #	Order #	Manufacturer Model #	Order #	Manufacturer Model #	Order #	Manufacturer Model #	Order #
Curtis Mathes C-718	42-1115	Hitachi VT43AY	42-1105	Magnavox VR8318BK01	42-891	Quasar VH5020	42-1100	RCA VJT425	42-1105	Sanyo VPT595	42-1460
Fisher FVH715	42-1130	VT44AY	42-1105	VR8325BK01	42-1085	VH5020RW	42-873	VJT500	42-1105	VCR-3900, -II	42-893
FVH720	42-1130	VT56A	42-1110	VR8330BK01	42-1085	VH5030	42-1085	VJT700	42-1105	VCR-4000, -II	42-893
FVH721	42-1130	VT60A	42-1110	VR8330BK02	42-1085	VH5030SW	42-900	VKT275	42-1105	VCR-4200	42-892
FVH722	42-1130	VT61A	42-1110	VR8335BK01	42-1085	VH5040	42-1085	VKT300	42-1105	VCR-4300	42-892
FVH725	42-1130	VT62A	42-1110	VR8340BK01	42-1085	VH5040SW	42-900	VKT325	42-1105	VCR-4400, -II, -III, -IV	42-893
FVH730	42-1145	VT63A	42-1110	VR8350BK01	42-874	VH5100QW	42-873	VKT400	42-1105	VCR-4600	42-893
FVH805A	42-1135	VT64A	42-1110	VR8415SL01	NEW 42-1225	VH5125UW	42-891	VKT425	42-1105	VCR-4900	42-893
FVH810	42-1135	VT65A	42-1110	VR8416SL01	NEW 42-1225	VH5150RW	42-873	VKT426	42-1105	VCR-5000	42-887
FVH815	42-1130	VT71A	42-1110	VR8417SL01	NEW 42-1225	VH5155RW	42-920	VKT430	42-1105	VCR-6300	42-893
FVH816	42-1135	VT73AY	42-1110	VR8425SL01	NEW 42-1225	VH5160	42-1085	VKT500	42-1105	VCR-6400	42-893
FVH820	42-1130	VT74AY	42-1110	VR8435SL01	NEW 42-1225	VH5160SW	42-940	VKT550	42-1105	VCR-6800	42-893
FVH822	42-1135	VT76AY	42-1110	Montgomery Ward GEN10518A	42-876	VH5210TW	42-878	VKT650	42-1105	VHR3950	NEW 42-1510
FVH825	42-1135	VT78AY	42-1110	Panasonic NV1000A	42-1115	VH5245XW	NEW 42-1225	VKT700	42-1105	VHR8100	NEW 42-1510
FVH830	42-1130	VT86A	42-1110	NV1000A	42-1115	VH5246XQ	NEW 42-1225	VL450	42-1110	VHR8120	NEW 42-1510
FVH839	42-1130	VT1100A	NEW 42-1460	NV8150	42-1115	VH5300SE	42-874	VL7470	42-1110	VHR8310	NEW 42-1510
FVH840	42-1130	VT1100AR	NEW 42-1460	NV8300	42-1115	VH5300SE	42-874	VL800HF	42-1110	VHR8700	NEW 42-1510
FVH904A	42-1125	VT1105A	NEW 42-1460	PV1000	42-1115	VH5310TV	42-878	VL601HF	42-1110	VHR9100	NEW 42-1510
FVH905A	42-1125	VT1110A	NEW 42-1460	PV1000A	42-1115	VH5346XE	NEW 42-1225	VL602HF	42-1110	VHR9200	NEW 42-1510
FVH906	42-1125	VT1200A	NEW 42-1460	PV1100	42-1115	VH5610	42-1085	VM285A	NEW 42-1460	VHR9300	NEW 42-1510
FVH907	42-1125	VT1300A	NEW 42-1460	PV1200	42-1100	VH5610TW	42-930	VM295	NEW 42-1460	VHR9500	NEW 42-1510
FVH919	42-1125	VT1305A	NEW 42-1460	PV1210	42-1100	VH5845K	NEW 42-1225	VM296	NEW 42-1460	VHR9600	NEW 42-1510
FVH920	42-1125	VT1310A	NEW 42-1460	PV1265	42-1095	VH5845XE	NEW 42-1225	VM297	NEW 42-1460	VTL-9100	42-880
FVH922	42-1135	VT1320A	NEW 42-1460	PV1270	42-1090	VH5845XQ	NEW 42-1225	VM298	NEW 42-1460	Standard Belt Kit	42-894
FVH930	42-1135	VT1350A	NEW 42-1460	PV1275	42-1090	RCA VBT200	42-1115	VM299	NEW 42-1460	Sony SL-2000	42-897
FVH940	42-1125	VT1370A	NEW 42-1460	PV1280	42-1095	VCT200	42-1115	VM385A	NEW 42-1460	SL-3000	42-881
FVH950	42-1140	VT1400A	NEW 42-1460	PV1300	42-1085	VCT201	42-1115	VM389	NEW 42-1460	SL-5000	42-883
FVH960	42-1130	VT1410A	NEW 42-1460	PV1310	42-1095	VCT225	42-891	VM390	NEW 42-1460	SL-5400	42-910
FVH980	42-1140	VT1430A	NEW 42-1460	PV1310	42-1095	VCT300	42-1115	VM391	NEW 42-1460	SL-5600	42-910
FVH990	42-1140	VT1450A	NEW 42-1460	PV1331R	NEW 42-1225	VCT310	42-1115	VM393A	NEW 42-1460	SL-5800	42-882
FVH4000	NEW 42-1505	VT1570A	NEW 42-1460	PV1370	42-1085	VCT400	42-1115	VM395	NEW 42-1460	SL-6200	42-871
FVH4100	NEW 42-1505	VT1710A	NEW 42-1460	PV1400	42-1085	VDT201	42-1115	VM395	NEW 42-1460	SL-7200	42-871
FVH4200	NEW 42-1505	VT1720A	NEW 42-1460	PV1470	42-1085	VDT350	42-1115	VM400	NEW 42-1460	SL-8200	42-880
FVH5400	NEW 42-1505	VT1800A	NEW 42-1460	PV1500	42-873	VDT501	42-1100	VM590	NEW 42-1460	Sylvania VC2200	42-1100
FVH5500	NEW 42-1505	VT1805A	NEW 42-1460	PV1510	42-1095	VDT555	42-1100	VM595	NEW 42-1460	VC2210	42-1090
FVH5550	NEW 42-1505	VT2000A	NEW 42-1460	PV1525	NEW 42-1225	VDT600	42-1100	VM597	NEW 42-1460	VC2212	42-1090
FVH6200	NEW 42-1510	VT2010A	NEW 42-1460	PV1530	NEW 42-1225	VET180	42-1115	VM630HF	NEW 42-1460	VC2400	42-1115
FVH6300	NEW 42-1510	VT2060A	NEW 42-1460	PV1600	42-873	VET250	42-1085	VM670HF	NEW 42-1460	VC2450	42-1115
FVH6500	NEW 42-1510	VT2100A	NEW 42-1460	PV1630	NEW 42-1225	VET253	42-1085	VPT250	NEW 42-1460	VC2700	42-1100
FVH6600	NEW 42-1510	VT2150A	NEW 42-1460	PV1650	42-920	VET450	42-1085	VPT289	NEW 42-1460	VC2800	42-1085
FVH6800	NEW 42-1510	VT2155A	NEW 42-1460	PV1750	42-1085	VET650	42-1085	VPT290	NEW 42-1460	VC2900	42-1085
FVHD5600	NEW 42-1505	VT2200A	NEW 42-1460	PV1770	42-1085	VFT170	42-889	VPT291	NEW 42-1460	VC3000	42-873
FVHZ1	NEW 42-1510	VT9100A	42-884	PV3000	42-874	VFT193	42-1090	VPT292	NEW 42-1460	VC3100	42-1085
General Electric IVCR2002X	42-888	VT9700A	42-884	PV3100	42-874	VFT250	42-1085	VPT293	NEW 42-1460	VC3110	42-1085
IVCR9000W	42-1115	VT9710A	42-884	PV3200	42-874	VFT456	42-1085	VPT294	NEW 42-1460	VC3610	42-1085
1VCR5002X	NEW 42-1225	J.C. Penney 685-5003-00	42-1115	Philco V1001QBK01	42-1095	VFT650	42-1085	VPT295	NEW 42-1460	VC4515	42-874
1VCR5003X	NEW 42-1225	685-5006-00	42-1115	V1011	42-1090	VFT650	42-1085	VPT296	NEW 42-1460	VC2970SL01	NEW 42-1225
1VCR5004X	NEW 42-1225	685-5007-00	42-873	V1012	42-1090	VGT200	42-1090	VPT297	NEW 42-1460	VC3140SL01	NEW 42-1225
1VCR5010X	NEW 42-1225	686-5011-00	42-877	V1300	42-1115	VGT203	42-1090	VPT385	NEW 42-1460	Toshiba V-5210	42-880
1VCR5011X	NEW 42-1225	686-5020-00	42-891	V1330	42-900	VGT205	42-1095	VPT391	NEW 42-1460	V-5310C	42-875
1VCR5014X	NEW 42-1225	Magnavox VH8200BR01	42-1115	V1441	42-1085	VGT207	42-1095	VPT392	NEW 42-1460	V-5310T	42-875
Hitachi VT11A	42-1105	VJ8225BR01	42-873	V1550	42-1085	VGT225	42-1095	VPT393	NEW 42-1460	Zenith JR9000P	42-880
VT11AR	42-1105	VK8222BR01	42-1100	V1551	42-1085	VJP900	42-886	VPT396	NEW 42-1460	JR9000W	42-880
VT12AX	42-1105	VK8227BR01	42-873	V1715	42-874	VJT250	42-1105	VPT397	NEW 42-1460	KR9000W	42-872
VT12AY	42-1105	VK8229BR01	42-920	Quasar VH5000	42-1115	VJT275	42-1105	VPT490	NEW 42-1460	VR9750J	42-885
VT15A	42-1105	VR8306BK01	42-1095	VH5011	42-1115	VJT400	42-1105	VPT495	NEW 42-1460	VR9760W	42-885
VT16AY	42-1105	VR8310BK01	42-1100								
VT18A	42-1105	VR8315BK01	42-1090								
VT19A	42-1105	VR8316BK01	42-1090								
VT34	42-1105										

Replacement Curtis Mathes Belts

■ Replaces Curtis Mathes #AV00026 ■ Dimensions: 3.875" (I.C.) x .059" (thickness) square belt

#42-1230 45¢⁽¹⁻⁹⁾ 35¢^(10-up)

■ Replaces Curtis Mathes #BH00001 ■ Dimensions: 3.4375" (I.C.) x .079" (thickness) square belt

#42-1235 55¢⁽¹⁻⁹⁾ 45¢^(10-up)

■ Replaces Curtis Mathes #B10B155028 ■ Dimensions: 13.625" (I.C.) x .075" (thickness) square belt

#42-1240 85¢⁽¹⁻⁹⁾ 75¢^(10-up)

■ Replaces Curtis Mathes #BH00015 ■ Dimensions: 12.8125" (I.C.) x .079" (thickness) square belt

#42-1245 85¢⁽¹⁻⁹⁾ 75¢^(10-up)

■ Replaces Curtis Mathes #AV00067 ■ Dimensions: 21.50" (I.C.) x .023" (thickness) x .180"(W)

#42-1250 \$2²⁵⁽¹⁻⁹⁾ \$1⁹⁰^(10-up)

■ Replaces Curtis Mathes #B10B155031 ■ Dimensions: 13.625" (I.C.) x .075" (thickness) square belt

#42-1255 45¢⁽¹⁻⁹⁾ 35¢^(10-up)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



Square Belts

Order #	I.C.*	Thickness (")	Price		Order #	I.C.*	Thickness (")	Price		Order #	I.C.*	Thickness (")	Price	
			(1-9)	(10-up)				(1-9)	(10-up)				(1-9)	(10-up)
42-025	2.311	.040	\$.34	\$.30	42-1060	6.375	.040	\$.50	\$.40	42-300	11.40	.046	\$.55	\$.50
42-895	2.375	.067	1.23	1.07	42-980	6.50	.062	.50	.35	42-255	11.803	.063	.65	.50
42-995	2.45	.060	.55	.50	42-190	6.50	.093	.45	.40	42-245	11.813	.045	.39	.35
42-035	2.499	.037	.34	.30	42-125	6.619	.047	.34	.30	42-310	12.10	.046	.42	.38
42-110	2.60	.046	.34	.30	42-200	7.00	.046	.39	.35	42-1080	12.25	.098	.95	.80
42-1150	2.6875	.064	.55	.50	42-135	7.134	.069	.45	.35	42-320	12.30	.093	.75	.60
42-1165	2.9375	.090	.60	.55	42-1055	7.25	.046	.45	.35	42-330	12.40	.062	.60	.45
42-043	3.00	.076	.50	.40	42-235	7.432	.031	.34	.30	42-265	12.750	.038	.50	.35
42-195	3.027	.031	.44	.34	42-145	7.432	.094	.75	.70	42-345	12.796	.078	.75	.60
42-045	3.062	.047	.45	.40	42-210	7.50	.046	.39	.35	42-1010	13.00	.046	.55	.50
42-055	3.125	.079	.55	.50	42-155	7.793	.072	.55	.50	42-340	13.00	.093	.95	.80
42-1170	3.1875	.078	.60	.55	42-1065	7.8125	.040	.55	.45	42-355	13.500	.048	.68	.50
42-120	3.40	.046	.34	.30	42-220	8.00	.062	.50	.35	42-350	13.60	.062	.60	.45
42-063	3.625	.070	.55	.45	42-163	8.125	.080	.65	.55	42-275	13.625	.079	.85	.70
42-065	3.799	.060	.45	.35	42-165	8.337	.031	.34	.30	42-1015	14.00	.046	.55	.50
42-075	3.875	.046	.34	.30	42-230	8.50	.093	.80	.75	42-363	14.00	.064	.70	.60
42-140	4.343	.047	.47	.40	42-175	8.625	.040	.40	.40	42-365	14.092	.065	.55	.50
42-905	4.40	.060	1.85	1.60	42-185	8.745	.060	.65	.50	42-1155	14.125	.074	.95	.80
42-085	4.438	.075	.55	.50	42-240	8.80	.046	.50	.35	42-360	14.20	.093	.95	.80
42-150	4.653	.047	.34	.30	42-1040	9.00	.080	1.75	1.45	42-375	14.237	.125	1.60	1.30
42-1070	4.6875	.070	.55	.45	42-250	9.10	.046	.40	.36	42-1020	14.50	.046	.62	.55
42-205	4.745	.031	.34	.30	42-258	9.25	.078	.70	.60	42-370	14.90	.093	.75	.60
42-088	4.937	.066	.50	.40	42-295	9.367	.141	1.05	.85	42-1025	15.00	.046	.70	.65
42-901	5.00	.060	1.80	1.55	42-260	9.50	.046	.39	.35	42-1000	15.50	.046	.90	.75
42-160	5.10	.046	.40	.36	42-305	9.813	.062	.45	.40	42-285	16.625	.095	1.10	.95
42-1160	5.5625	.055	.55	.50	42-270	10.00	.046	.55	.50	42-380	15.70	.093	1.10	.95
42-095	5.594	.046	.34	.30	42-1120	10.0625	.080	.70	.60	42-1030	16.00	.046	.90	.75
42-1075	5.60	.060	.50	.40	42-278	10.25	.078	.70	.60	42-385	16.428	.074	.90	.75
42-215	5.620	.031	.39	.35	42-280	10.50	.046	.42	.38	42-1005	16.50	.046	.90	.75
42-105	6.088	.047	.34	.30	42-315	10.688	.079	.77	.62	42-1035	17.00	.046	1.00	.85
42-115	6.125	.079	.55	.40	42-290	11.00	.046	.95	.80	42-390	17.50	.062	.85	.70
42-180	6.20	.046	.40	.36	42-325	11.178	.125	.95	.80	42-392	18.50	.062	.83	.68
42-225	6.274	.031	.47	.40	42-335	11.194	.060	.55	.50	42-395	24.375	.109	1.95	1.75

Flat Belts

Order #	I.C.*	Thickness (")	Width (")	Price		Order #	I.C.*	Thickness (")	Width (")	Price		Order #	I.C.*	Thickness (")	Width (")	Price	
				(1-9)	(10-up)					(1-9)	(10-up)					(1-9)	(10-up)
42-405	1.947	.031	.250	\$.60	\$.45	42-450	10.20	.020	.125	\$.50	\$.45	42-550	14.00	.025	.250	\$.80	\$.75
42-425	2.000	.062	.250	.45	.40	42-460	10.30	.020	.250	.75	.70	42-850	14.080	.036	.156	.80	.75
42-415	4.106	.068	.155	.62	.50	42-555	10.494	.035	.200	.65	.50	42-675	14.089	.069	.261	.95	.90
42-435	5.683	.031	.234	.45	.40	42-480	10.90	.020	.140	.67	.62	42-685	14.293	.035	.265	1.00	.80
42-445	5.903	.048	.125	.55	.50	42-483	10.937	.030	.233	.90	.80	42-860	14.858	.047	.250	1.20	1.15
42-455	6.158	.035	.166	.45	.40	42-488	11.00	.037	.236	.90	.80	42-695	15.188	.024	.234	.85	.78
42-465	6.572	.027	.125	.45	.40	42-565	11.238	.031	.156	.65	.50	42-705	15.433	.041	.191	.80	.75
42-400	6.80	.031	.312	.80	.70	42-500	11.25	.040	.375	.90	.85	42-560	15.70	.020	.250	1.60	1.50
42-475	7.375	.020	.120	.45	.40	42-490	11.30	.020	.250	.70	.65	42-715	15.989	.063	.469	1.65	1.55
42-795	7.432	.031	.250	.65	.50	42-575	11.492	.035	.187	.60	.55	42-725	16.705	.038	.327	1.65	1.55
42-1255 NEW	7.56	.047	.250	.45	.35	42-510	11.75	.045	.375	.95	.80	42-735	16.991	.031	.188	2.20	1.90
42-485	7.743	.031	.188	.50	.45	42-585	11.841	.035	.110	.80	.75	42-745	17.421	.031	.313	1.85	1.70
42-495	7.916	.031	.125	.50	.45	42-595	12.000	.028	.313	.90	.85	42-580	17.50	.025	.250	1.75	1.50
42-505	8.255	.065	.262	.70	.65	42-605	12.125	.034	.128	.70	.65	42-590	18.500	.040	.312	1.75	1.50
42-410	8.50	.020	.100	.55	.50	42-840	12.293	.053	.225	.80	.75	42-755	18.750	.048	.316	1.75	1.50
42-515	8.522	.062	.187	.85	.80	42-520	12.40	.025	.250	.80	.75	42-600	19.000	.046	.312	1.95	1.75
42-800	8.720	.031	.125	.50	.45	42-615	12.538	.056	.150	.65	.50	42-610	20.00	.025	.203	2.20	1.90
42-420	8.90	.022	.125	.49	.45	42-625	12.688	.022	.318	.80	.75	42-620	20.20	.031	.312	1.75	1.50
42-525	9.235	.035	.218	.72	.67	42-530	12.70	.020	.312	.80	.75	42-630	20.70	.020	.250	2.20	1.90
42-535	9.367	.031	.250	.55	.40	42-635	12.792	.035	.210	.80	.75	42-640	22.00	.040	.312	2.25	1.90
42-810	9.596	.031	.130	.60	.45	42-645	13.241	.035	.314	.90	.85	42-765	23.227	.031	.188	1.75	1.50
42-545	9.693	.037	.187	.50	.35	42-655	13.370	.055	.275	.95	.80	42-650	23.60	.020	.250	1.25	1.25
42-440	9.75	.025	.250	.80	.75	42-540	13.50	.020	.250	.80	.75	42-670	25.00	.020	.250	1.80	1.50
42-820	9.772	.036	.250	.74	.69	42-665	13.794	.031	.196	.95	.90	42-785	37.562	.036	.314	4.50	4.00
42-470	9.80	.020	.125	.45	.40												

How To Measure The Inside Circumference Of Belts

Use two pencils and the chart to the left. Position first pencil on the colored circle at the top of the chart. Move second pencil down to the indicating circle.

Do not stretch! When measuring worn belts, select a replacement 3% to 5% smaller.

*(Inside circumference measured in inches.)



Belt-O-Meter

■ A quick way to determine the I.C. thickness, and width of belts ■ Measures belts from 3"-36" I.C.

#21-1295 \$4.45 (1-9) \$3.95 (10-up)

Belt Width Gauge

.075	.187 - 3/16"
.093 - 3/32"	
.100	.203 - 1/8"
.125 - 1/8"	.218 - 7/32"
.140 - 9/64"	
.156 - 5/32"	.250 - 1/4"

CALL TOLL FREE 1-800-543-4330



VCR ACCESSORIES

LONESTAR Learning Universal Remote Control

■ This remote learns your TV, CD, VCR and hi-fi remote control codes ■ Built-in 8K of memory to combine up to five different remote controls and up to 85 different commands ■ LCD display shows the time and also makes programming an ease ■ Built-in timer lets you program any device to come on at a specific time and a sleep control that will turn equipment off automatically

■ Seventeen programmable keys ■ Small enough to fit in shirt pocket ■ Comes with stand, directory card and batteries ■ Dimensions: 3 1/2" (H) x 2 1/4" (W) x 1/2" (D)

*Note: Original remote controls are necessary in order to program this remote. It cannot replace a lost remote.

#80-450 \$39⁹⁵ (ea.)

NEW



SOLE CONTROL

Universal Remote Control

■ Pre-programmed remote replaces lost or broken remote controls ■ The Sole control universal remote is one of the best and easiest to use replacement remotes on the market today ■ It can operate over 240 different brand codes and components, simply refer to the directory of codes (included) for the particular brand and component you wish to operate ■ Replaces up to six remotes with one unit ■ Operates up to eight secondary functions such as color, tint, bass, treble, antenna select, etc. (as long as the original remote control would operate these functions) ■ Operates VCR "on screen programming" functions without complicated codes or reprogramming ■ Requires 6VDC, four "AAA" batteries (not included) ■ Made in USA

#80-490 \$59⁹⁵ (ea.)

NEW



Video Dubbing Kit

■ All you need to interconnect two VCRs for copying tapes ■ Kit contains: Two "F" male to RCA jack adaptors; two 3.5mm plug to RCA jack adaptors; one 6' dual RCA cable

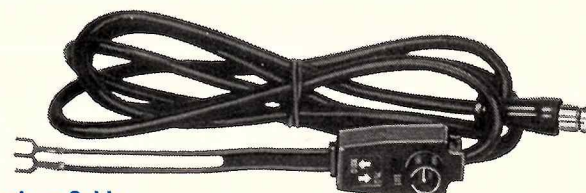
#32-700 \$5⁹⁵ (1-9 kits) \$5³⁰ (10 kits-up)



TV/VCR Hook-up Kit

■ Everything you need to hook-up your TV or VCR to CATV ■ Kit contains: 6' "F" to "F" jumper cable with push-on connectors, 6' 300ohm twin lead cable with spade terminals, matching transformer and push-on balun

#32-1280 \$3⁴⁵ (1-9 kits) \$3⁰⁵ (10 kits-up)



VCR Hook-up Cable

■ Same RF cable supplied with most VCRs ■ 5' RG-59 cable with push-on "F" connector input ■ Output switchable between 75ohm and 300ohm

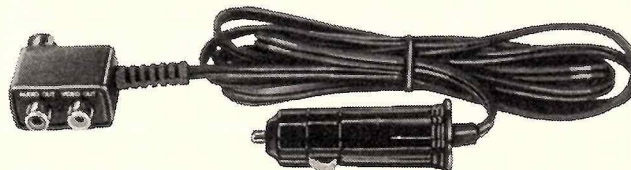
#32-1155 \$2⁹⁵ (1-9) \$2⁵⁰ (10-up)



Camcorder A/V Output Cable

■ Provides audio and video outputs from camcorder for dubbing or viewing ■ 8 pin sub-mini DIN plug to two RCA plugs ■ Replaces RCA #174801

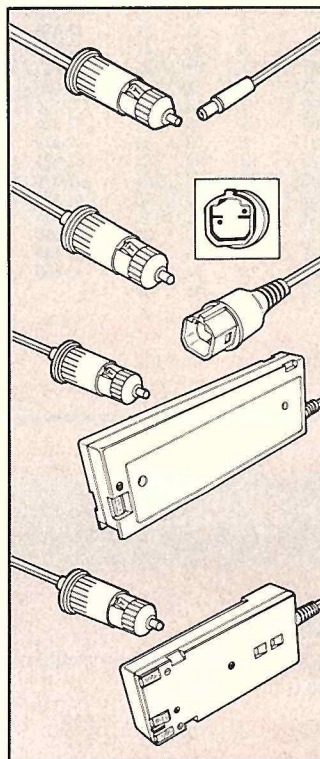
#32-1005 \$9⁹⁵ (ea.)



Panasonic Type Power Cord with A/V Outputs

■ Allows Panasonic and other Matsushita manufactured camcorders to be used with automotive electrical systems or portable power packs ■ Built-in RCA type outputs for audio and video ■ Fused lighter plug ■ 6' length

#32-1150 \$11⁹⁵ (1-3) \$10⁸⁵ (4-up)



DC Power Cord

■ Used to power a portable VCR from a cigarette lighter jack ■ Fused lighter plug ■ 6.3mm DC plug ■ 6' length

#23-175 \$2⁷⁵ (1-9) \$2³⁵ (10-up)

Panasonic Type DC Power Cord

■ Allows portable VCRs to be used with automotive electrical system ■ 2 pin type plug ■ Fused lighter plug ■ 20' cord length

#32-1100 \$8⁵⁵ (1-3) \$7⁵⁵ (4-up)

Battery Eliminators for Camcorders/VCRs

■ Allows camcorders or VCRs to be used with automotive electrical system or portable battery pack ■ Mounts in place of battery ■ Fused lighter plug ■ 20' cord length

Panasonic Type

■ Dimensions: 2" (W) x 7 1/8" (L) x .950" (D)

#32-1085 \$19⁹⁵ (1-3) \$18⁵⁰ (4-up)

Sony 8mm Type

■ Dimensions: 2" (W) x 4 1/2" (L) x .960" (D)

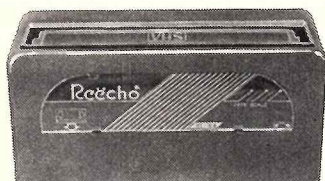
#32-1145 \$26⁹⁵ (1-3) \$24⁹⁵ (4-up)



Toaster Style Video Rewinder

■ Compact design ■ Pops tape up when finished rewinding ■ Comes complete with AC adaptor

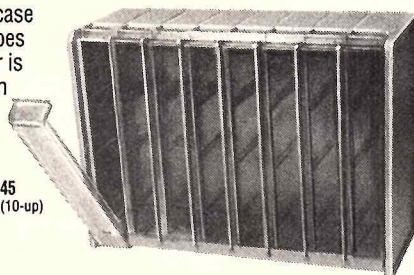
#32-1310 \$19⁹⁵ (ea.)



Video Cassette Storage Library

■ Keep your valuable tapes clean and orderly in this convenient storage case ■ Holds up to eight VHS or Beta tapes ■ Tapes glide out smoothly as door is opened ■ Black plastic construction with smoked acrylic doors ■ Dimensions: 12" (W) x 8 3/4" (H) x 4 1/2" (D)

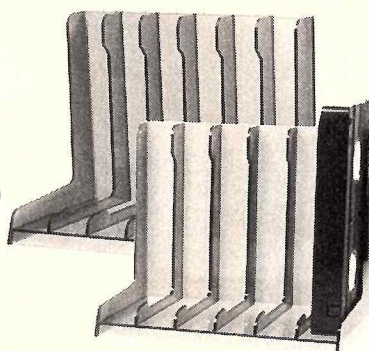
#32-610 \$13³⁵ (1-9) \$12⁴⁵ (10-up)



Video Cassette Racks

■ Each rack holds up to six Beta or VHS tapes ■ Dimensions: 8 1/2" (W) x 7" (H) x 5" (D) ■ Two per set

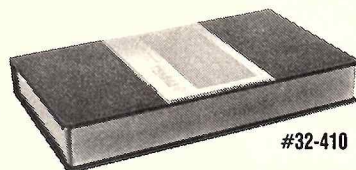
#32-680 \$4²⁵ (set)



TENMA Video Cassette Tape Storage Case

■ High impact injection plastic ■ Universal; fits VHS and Beta ■ Clear pocket with paper insert for labeling titles, tape speed, file number, etc.

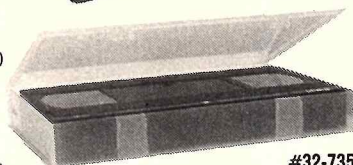
#32-410 \$1⁰⁵ (1-9) 85¢ (10-up)



#32-410

Clear Video Storage Case

#32-735 \$1⁰⁵ (1-9) 95¢ (10-up)

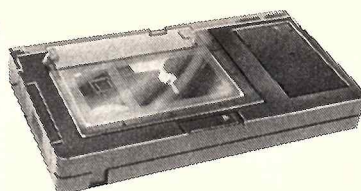


#32-735

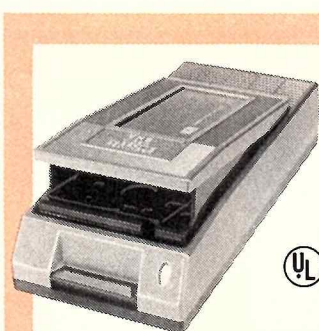
VHS-C Adaptor

■ Allows VHS-C cassettes to be used in VHS machines ■ Same as adaptor included with many VHS-C camcorders ■ Built-in erase protector will not allow recording if VHS-C tape is protected ■ Requires one "AA" battery (not included)

#32-1175 \$49⁹⁵ (ea.)



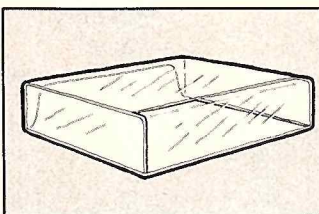
Use MCM for all your electronic parts needs



LASER VHS Video Cassette Rewinder

■ Saves wear and tear on rewind motor of VCRs ■ Automatically stops when rewound ■ Soft eject ■ Works on standard 120VAC ■ UL approved ■ Dimensions: 5 1/4" (W) x 2 3/8" (H) x 11 3/4" (D)

#32-1530 \$25⁸⁰ (ea.)



VCR Dust Cover

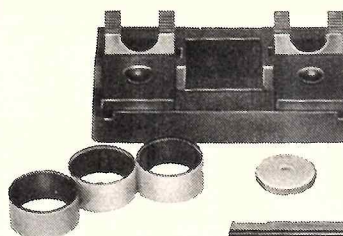
■ Heavy duty vinyl dust cover protects VCR from dust, spills, dirt, scrapes and other common accidents ■ Transparent front allows user to read clock ■ Dimensions: 17" (W) x 4 1/2" (H) x 16" (D)

#32-970 \$1⁷⁵ (1-9) \$1⁶⁰ (10-up)

Audio/Video Tape Repair Kit

Repairs audio and video tape, including VHS and Beta ■ Splicing block, single edged razor blade, two rolls leader tape, roll of audio splice tape, roll of video splice tape, and extra audio cassette hub included

#32-740 \$4⁹⁰ (1-9 kits) \$4¹⁵ (10 kits-up)



Video Head Cleaners

■ Use wet or dry ■ Head cleaning fluid included ■ Fast and efficient way to maintain picture quality and prolong head life ■ Available in VHS, VHS-C and 8mm formats

Order #	Format	Type	Price	
			(1-9)	(10-up)
32-1305	VHS-C	Wet/Dry	\$9.95	\$8.95
32-570	VHS	Wet/Dry	6.15	5.55
32-975	8mm	Wet/Dry	8.95	8.20



Bib Video Head Cleaner

■ One of the best head cleaners on the market ■ Will not harm video heads ■ Unique push button operation automatically applies correct amount of cleaning fluid ■ VHS format ■ Cleans complete tape travel path including audio heads and capstan ■ Can be used wet or dry ■ High quality construction with metal tape guides ■ Made in England ■ Display packaged

#32-460 \$13⁹⁵ (1-9) \$13⁵⁰ (10-up)

IN CANADA CALL TOLL FREE
1-800-824-9491

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VCR BATTERIES

VCR and Camcorder Batteries

Replacement batteries for popular camcorders. To find the battery you need, look up the manufacturer and model number in the cross reference.



VCR and Camcorder Batteries

Order #	Voltage	Current	Price	Order #	Voltage	Current	Price
29-715	6	1Ah	\$39.95	29-710	9.6	1.5Ah	\$41.00
29-730	6	1.5Ah	34.95	29-380	9.6	1.5Ah	39.95
29-740	6	1.5Ah	34.95	29-385	12	1.5Ah	49.80
29-390	6	1.4Ah	28.95	29-375	12	2.3Ah	43.80
29-735	7.2	1Ah	44.95	29-770 NEW	12	2.3Ah	43.80
29-720	7.2	1.5Ah	39.95	29-265	12	.9Ah	41.50
29-725	9.6	1Ah	49.95	29-260	12	1.9Ah	27.95
				29-635	12	2Ah	49.95

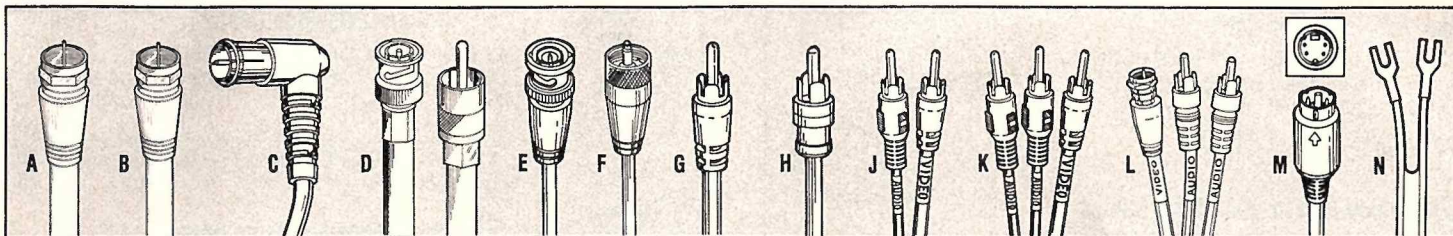
Manufacturer	Model #	Order #	Manufacturer	Model #	Order #	Manufacturer	Model #	Order #	Manufacturer	Model #	Order #
Aiwa	CV-50	29-390	GE	CG-9906	29-770	Magnavox	8585	29-375	Panasonic	PV-400	29-375
	CV-80	29-390		CG-9907	29-770		8590	29-375		PV-420	29-375
Akai	VF-80	29-390		CG-9908	29-770		8592	29-375		PV-430	29-375
Canon	7350	29-260		CG-9910	29-770		CVJ310	29-375		PV-460	29-375
	BP-E22	29-740		CG-9911	29-770		CVJ320	29-375		PV-602	29-770
	E70	29-715		9-9710	29-380		CVJ340	29-375		PV-604	29-770
	E77	29-715	Goldstar	GS-8	29-390		CVJ350	29-375		PV-610	29-770
	E80	29-715	Hitachi	VM-200A	29-385	Minolta	CR-1000S	29-385		PV-S350	29-375
	E708	29-740		VM-2000A	29-385		CR-1200S	29-385	Pentax	PV-S440	29-375
	E808	29-715		VM-2100A	29-385		CR-3000S	29-380		PV-C11	29-385
	VM-E2	29-740		VM-3250A	29-710		CR-8000SAF	29-720		PV-C11A	29-385
	40A	29-375		VM-5000A	29-385		CR-8100SAF	29-720		PV-C33	29-385
	20A	29-375		VM-5200A	29-710	Mitsubishi	HS-F10 UR	29-385		PV-C55	29-385
	Portables	29-635		VM-7000A	29-385	Nec	EM-A8U	29-390		PV-C55A	29-385
Chinon	C8-1003	29-735		VM-BP63	29-710	Nikon	VN-830	29-730		PVC-800	29-720
	CV-T60G	29-375		VM-57200A	29-710		VN-900	29-730		PVC-850	29-720
	CV-T63	29-770		6500	29-260		VN-950	29-730	Philco	1715	29-260
	CV-T84	29-770		6800	29-260		VN-8000	29-735		1728	29-375
Curtis Mathes	768	29-375		VT-3	29-260	Olympus	VX-407	29-770		VCR-801	29-375
	773	29-375		VT-7P	29-265		VX801	29-735	Quasar	5300	29-260
Elmo	ECR-8	29-635		5110	29-375		VX802	29-735		5410	29-260
	ER-10	29-635	J.C. Penney	5115	29-375		VX403	29-735		5420	29-635
	—	29-635		5116	29-635		VX404	29-375		5430	29-635
Emerson	FVC 701	29-730		GR-C1U	29-380		VX405	29-375		5435	29-635
Fisher	FVC 901	29-730	JVC	GR-C2U	29-380		VX406	29-375		5440	29-375
	3020	29-635		GR-C7	29-380	Panasonic	3000	29-260		5442	29-375
GE	4020	29-635		GR-C7U	29-380		4000	29-635		5450	29-375
	4021	29-375		NBP-8	29-380		4500	29-635		5452	29-375
	1CVD5021	29-375	Kyocera	KD-200	29-390		5000	29-635		5740	29-375
	1CVD5023	29-375		KD-200K	29-390		5400	29-635		5747	29-375
	1CVD5025	29-375		KD-1100U	29-390		5500	29-635		5750	29-375
	1CVK5040	29-375		KD-1700	29-730		5800	29-375		5757	29-375
	1CVP5022	29-375		KD-1700U	29-730		5850	29-375		VM-20	29-375
	1CVP5024	29-375		KD-2010U	29-720		6000	29-635		VM-50	29-380
	1CVP5026	29-375		KD-3010U	29-720		6500	29-635		VM-700	29-770
	1CVP5028	29-375		KD-5010	29-730		6600	29-635		VM-705	29-770
	VHS9-9605	29-375		KD-M710	29-730		8100	29-375		VM-706	29-770
	9-9606	29-375	Magnavox	8290	29-375		8110	29-375	RCA	BP-96FL	29-710
	VHS9-9606	29-375		8292	29-375		8420	29-635		CC-260	29-710
	VHS9-9607	29-375		8293	29-375		8484	29-375		CC-280	29-710
	9-9608	29-375		8297	29-380		8485	29-375		CC-310	29-380
	VHS9-9608	29-375		8355	29-260		8500	29-375		CC-320	29-710
	VHS9-9609	29-375		8400	29-635		8410	29-260		CLR-200	29-385
	9-9610	29-375		8450	29-375		8600	29-375		CMR-200	29-385
	VHS9-9610	29-375		8451	29-635		9600	29-375		CMR-300	29-385
	9-9705	29-375		8474	29-375		AG-2400	29-375		VJP	29-265
	9-9806	29-375		8475	29-375		LCS-2012	29-635		VKP 170	29-265
	CG-9806	29-375		8480	29-635		PV-100	29-380		825	29-265
	CG-9808	29-375		8484	29-375		PV-210	29-375		900	29-265
	CG-9810	29-375		8486	29-375		PV-220	29-375		925	29-265
	CG-9815	29-375		8570	29-375		PV-300	29-375		926	29-265
	CG-9825	29-375		8572	29-375		PV-330	29-375		950	29-265



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VIDEO JUMPER CABLES



A. Gold Plated "F" to "F" Jumper Cables

- Gold plated connectors for low signal loss
- Made of high quality 75ohm RG-59 cable
- Molded strain relief

Order #	Length	Price	
		(1-9)	(10-up)
32-580	3'	\$2.30	\$1.75
32-585	6'	2.75	2.20

A. "F" to "F" Jumper Cables

- High quality jumper cables ■ 75ohm ■ Ideal for cable, TV and VCR connections

Order #	Length	Price	
		(1-9)	(10-up)
33-544	3'	\$1.55	\$1.35
33-548	6'	1.75	1.50

B. Gold Plated Push-On "F" to "F" Jumper Cables

- Gold plated connectors for low signal loss
- Made of high quality 75ohm RG-59 cable
- Molded strain relief

Order #	Length	Price	
		(1-9)	(10-up)
32-600	3'	\$2.10	\$1.30
32-605	6'	2.25	1.85
32-607	12'	3.10	2.65

C. Right Angle "F" to "F" Jumper Cables

- Right angle connectors on both ends for use where space is limited ■ Push-on type ■ High quality 75ohm RG-59 cable ■ Molded strain relief

Order #	Length	Price	
		(1-9)	(10-up)
32-930	3'	\$1.55	
32-935	6'	2.00	

D. RG-59 Cable Extension

- 10' extension

Order #	Type	(1-9)	Price	
			(10-49)	(50-up)
33-520	BNC to BNC	\$7.45	\$6.95	\$6.50
33-530	BNC to RCA	4.90	4.40	3.95
33-540	RCA to RCA	2.95	2.65	2.35



Use MCM for all your electronic parts needs

E. BNC to BNC Jumper Cables

- Made of high quality RG-58U cable with molded strain relief

Order #	Length	(1-9)	Price	
			(10-49)	(50-up)
24-785	3'	\$2.85	\$2.70	\$2.50
24-790	6'	3.25	3.10	2.85
24-795	12'	4.40	4.20	3.95

F. UHF to UHF Jumper Cables

- High quality RG-58U cable with molded strain relief ■ PL-259 male connectors

Order #	Length	(1-9)	Price	
			(10-49)	(50-up)
24-800	3'	\$2.55	\$2.39	\$2.19
24-805	6'	2.95	2.79	2.55

G. Gold Plated RCA to RCA Jumper Cables

- Gold plated connectors for low signal loss
- Made of high quality 75ohm RG-59 cable
- Molded strain relief

Order #	Length	(1-9)	Price	
			(10-49)	(50-up)
32-590	3'	\$2.15	\$1.65	
32-595	6'	2.40	1.95	
32-597	12'	3.15	2.70	

H. RCA Plug to RCA Plug 75ohm Coax Cable

- A shielded flexible monitor cable for use with computers, VCRs, etc.

Order #	Length	(1-9)	Price	
			(10-49)	(50-up)
83-325	3'	\$1.80	\$1.40	\$1.10
83-330	6'	1.95	1.50	1.20
83-335	12'	2.65	2.20	1.85

J. Gold Plated Mono VCR Dubbing Cables

- Used for dubbing on mono VCRs ■ Dual RCA cable with shielded RG-59U coaxial cable for video

Order #	Length	(1-9)	Price	
			(10-49)	(50-up)
32-980	3'	\$2.80	\$2.50	
32-985	6'	3.60	3.30	

K. Gold Plated Stereo VCR Dubbing Cables

- Used for dubbing on stereo VCRs ■ Triple cable with shielded RG-59U coaxial cable for video

Order #	Length	(1-9)	Price	
			(10-up)	
32-960	3'	\$3.99	\$3.70	
32-965	6'	4.60	4.30	

L. Gold Plated Stereo VCR Cables

- Cable with RCA plugs for stereo audio and "F" type connector for video ■ Triple cable with RG-59U coaxial cable for video signal

Order #	Length	(1-9)	Price	
			(10-up)	
32-1090	3'	\$4.25	\$3.85	
32-1095	6'	4.75	4.25	

M. Gold Plated SVHS Jumper Cable

- Used in super VHS VCRs, camcorders and many TVs and laser disc players ■ Male to male configuration ■ High quality cable with molded strain relief

Order #	Length	(1-9)	Price	
			(10-up)	
32-1205	6'	\$6.50	\$5.75	
32-1210	12'	10.85	9.95	

Female to Female SVHS Connector

- Connects two SVHS cables together (not shown)



#27-1270		\$5 ⁶⁸ (1-9)		\$4 ⁶⁰ (10-49)		\$3 ⁸² (50-up)
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N. 300ohm Jumper Cable

- 6' 300ohm twin lead with spade lugs on each end
- Used for connecting VCR, cable box, etc. to TV

#33-0115		78¢ (1-9)		65¢ (10-up)
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VCR Hook-up Cable

- Same RF cable supplied with most VCRs
- 5' RG-59 cable with push-on "F" connector input ■ Output switchable between 75ohm and 300ohm

#32-1155		\$2 ⁹⁵ (1-9)		\$2 ⁵⁰ (10-up)
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AUDIO JUMPER CABLES

Dual RCA Extension Cable

- Two RCA plugs to two RCA jacks ■ Extends length of patch cables ■ Molded strain relief
- Color coded red and gray ■ 6' length

#24-595 \$1.65 (1-9) \$1.35 (10-up)

Gold Plated RCA to RCA Stereo Cables

- High quality molded construction ■ Shielded
- Dual gold plated RCA plugs ■ Color coded red and gray

Order #	Length	Price	
		(1-9)	(10-up)
24-760	3'	\$1.70	\$1.35
24-765	6'	2.05	1.75
24-768	12'	2.15	1.95
24-769	20'	2.79	2.49

RCA to RCA Stereo Cables

- High quality molded construction ■ Shielded
- Dual RCA plugs ■ Color coded red and gray

Order #	Length	Price	
		(1-9)	(10-up)
24-090	3'	\$1.20	\$.95
24-100	6'	1.60	1.20
24-103	12'	2.10	1.75
24-104	20'	2.45	2.05

4 Conductor RCA to RCA Patch Cable

- Four color coded RCA plugs to four color coded RCA plugs ■ Ideal for interconnection of tape deck play and record ■ Cables ganged together for neater appearance ■ 7' length

#24-700 \$5.55 (1-9) \$4.45 (10-up)

RCA Piggyback Patch Cable

- RCA patch cable with two RCA plugs on one end and combination RCA plug/jack on other end
- Allows connection of two audio/video components to one input

Order #	Length	Price	
		(1-9)	(10-up)
24-640	3'	\$1.95	\$1.50
24-645	6'	2.30	1.95

3.5mm Stereo Plug to Two RCA Plugs

- Allows use of personal cassette player or portable CD player with home audio system

#24-655 \$1.55 (1-9) \$1.00 (10-up)

3.5mm to RCA Plug

- 3.5mm mono plug to RCA plug

Order #	Length	Price	
		(1-9)	(10-up)
24-665	3'	\$.85	\$.55
24-670	6'	1.05	.75

3.5mm Plug to 3.5mm Plug

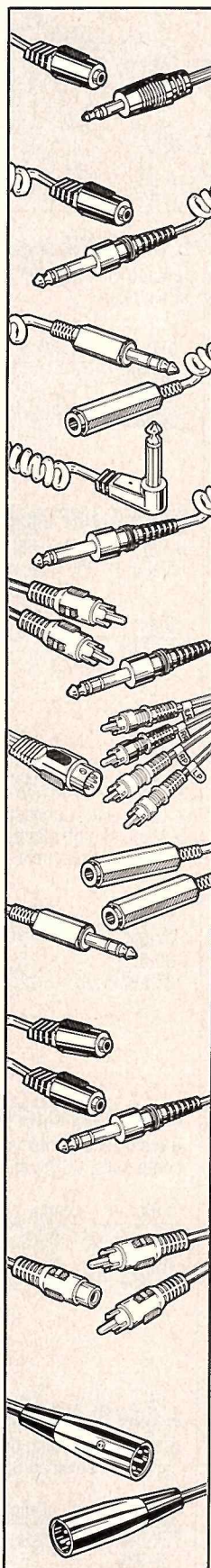
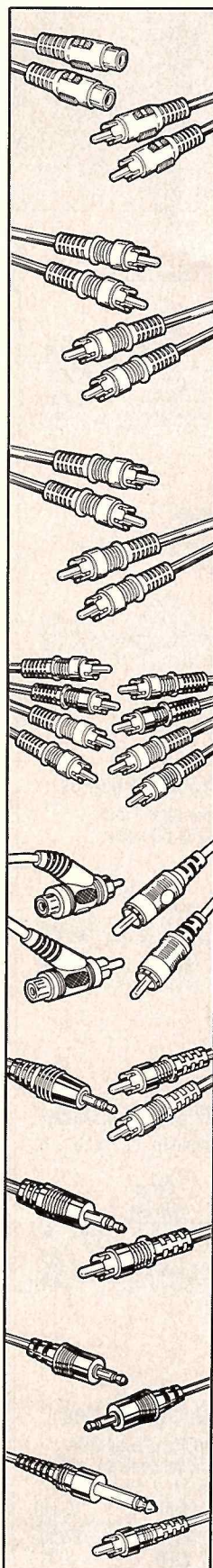
- Molded strain relief ■ 6' length

Order #	Type	Price	
		(1-9)	(10-up)
24-810	Mono	\$1.15	\$.80
24-815	Stereo	1.50	1.10

RCA Plug to 1/4" Mono Plug

- Adapts 1/4" mono plug to an RCA plug
- 6' length

#24-675 \$1.95 (1-9) \$1.59 (10-up)



3.5mm Extension Cable

- 3.5mm female to male extension cable ■ 12' length ■ Available in mono or stereo

Order #	Type	Price	
		(1-9)	(10-up)
24-1045	Mono	\$1.49	\$1.15
24-1050	Stereo	1.89	1.65

Headphone Extension/Adaptor

- 1/4" stereo plug to 3.5mm stereo jack ■ Extends overall working length by 20'

#24-695 \$3.50 (1-9) \$2.55 (10-up)

Stereo Headphone Extensions

- Quality construction with stress relief ■ 25' coiled ■ 1/4" jack to 1/4" plug

#24-080 \$2.95 (1-9) \$2.75 (10-up)

Electric Guitar Cable

- 1/4" mono plug to 1/4" right angle mono plug
- Coiled cord extends to 20'

#24-660 \$2.25 (1-9) \$1.95 (10-up)

1/4" Stereo Plug to RCA Plugs

- 1/4" stereo plug to two RCA plugs used with amplifiers and mixers ■ 6' length

#24-1040 \$1.69 (1-9) \$1.25 (10-up)

DIN Plug to RCA Cable

- Connects tape decks and receivers with 5 pin DIN plug to equipment with standard RCA connectors ■ 5 pin DIN plug to four RCA connectors ■ 5' length

#24-600 \$2.70 (1-9) \$2.15 (10-up)

1/4" "Y" Adaptor

- 1/4" stereo plug to a two 1/4" stereo jacks
- Allows simultaneous use of two pairs of headphones from one jack

#24-690 \$1.99 (1-9) \$1.59 (10-up)

Dual Headphone Adaptors

- Allows two headphones to be plugged into one jack

#24-685 1/4" Plug to Two 3.5mm Jacks (shown)

#24-680 3.5mm Plug to Two 1/4" Jacks
\$1.69 (1-9) \$1.29 (10-up)

RCA "Y" Adaptors

- Divides a RCA input into two outputs

#24-770 RCA Jack to Two RCA Plugs (shown)

#24-650 RCA Plug to Two RCA Jacks
\$1.10 (1-9) 65¢ (10-up)

Microphone Jumper Cables

- XLR 3 connectors ■ All use dual conductor cable that is shielded for low noise ■ 20' length

Order #	Type	Price	
		(1-9)	(10-up)
24-591	Male to Male	\$9.95	\$8.95
24-592	Female to Female	9.95	8.95
24-590	Male to Female	10.95	9.95

CASSETTE PARTS



High Quality Replacement Heads from Japan

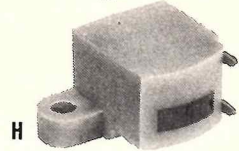
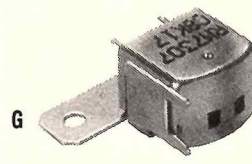
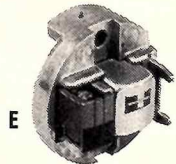
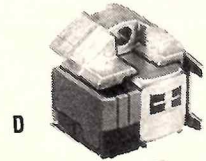
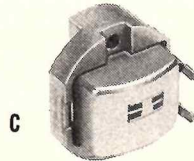
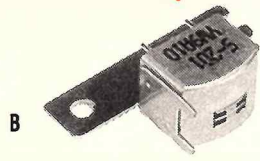
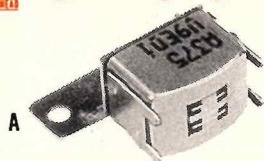


Fig.	Order #	Description	Material	Impedance	(1-9)	Price (10-49)	(50-up)
A	41-165	Auto Reverse R/P Head	Permalloy	1100ohms (1KHz)	\$9.50	\$8.50	\$7.50
B	41-170	Standard R/P Head	Permalloy	900ohms (1KHz)	6.50	5.50	4.50
C	41-150	Rotary Auto Reverse Playback Head	Ferrite	900ohms (1KHz)	8.50	7.50	6.50
D	41-160	Rotary Auto Reverse Playback Head	Ferrite	900ohms (1KHz)	8.50	7.50	6.50
E	41-145	Rotary Auto Reverse R/P with Erase Head	Ferrite	900ohms (1KHz)	11.50	10.50	9.50
F	41-155	Rotary Auto Reverse R/P with Erase Head	Ferrite	900ohms (1KHz)	11.50	10.50	9.50
G	41-185	Standard Mono Head	Ferrite	1300ohms (1KHz)	2.50	2.25	1.95
H	41-175	Metal Compatible Erase Head		240ohms (80KHz)	2.50	2.25	1.95
H	41-180	Standard Erase Head		90ohms (50KHz)	2.50	2.25	1.95

Standard Tape Heads

Standard Stereo

- Will replace most stereo tape heads
- Standard mount

#41-030.....\$3⁹⁵₍₁₋₉₎.....\$3⁶⁰₍₁₀₋₄₉₎.....\$3²⁰_(50-up)

Sony Type

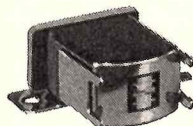
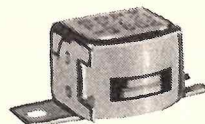
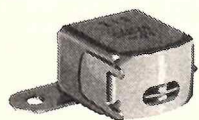
- Replacement for Sony Walkman ■ Sony #PP221-3602

#41-120.....\$2⁶⁰₍₁₋₉₎.....\$2⁵⁵₍₁₀₋₄₉₎.....\$2⁴⁵_(50-up)

Auto Reverse

- Playback head with standard mount ■ Fits most automatic reverse units ■ Impedance: 900ohm at 1KHz

#41-080.....\$7³⁰₍₁₋₉₎.....\$6⁶⁵₍₁₀₋₄₉₎.....\$6²⁵_(50-up)



Cassette Belts

Cassette Belt Kit

- One each of the ten popular sizes of belts used in many cassette decks

I.C. (")	Thickness (")	I.C. (")	Thickness (")
2.60	.046	8.00	.062
3.40	.046	8.60	.040
4.65	.046	9.81	.062
5.10	.046	11.00	.046
7.50	.046	12.40	.062

#42-960.....\$3⁵⁰_(1-9 kits).....\$2⁹⁵_(10 kits-up)

Walkman Type Cassette Belt Kit

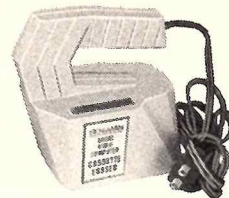
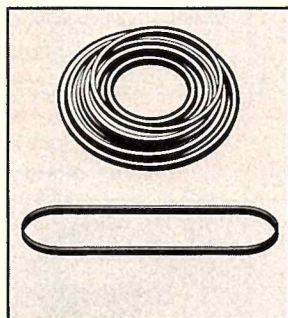
- Set of replacement belts for Walkman stereos ■ Includes ten different sizes

#42-990.....\$2¹⁵_(1-9 kits).....\$1⁹⁵_(10 kits-up)

8.625" Cassette Belt

- Used in various cassette decks, including Sony ■ Minimum ten

#42-175.....40¢_(10-up)



Bulk Tape Eraser

- Erases audio/video tapes and computer floppy disks ■ Heavy-duty construction
- Made in USA

#21-1195..\$27⁰⁵₍₁₋₄₎..\$25⁴⁰₍₅₋₉₎..\$22⁹⁰₍₁₀₋₂₄₎

TENMA™ Head Demagnetizer

- Operates on 120VAC ■ Curved demagnetizer tip reaches hard to access record/playback heads ■ Plastic cover on tip protects heads from damage during demagnetizing ■ A must for anyone owning a cassette or reel to reel recorder

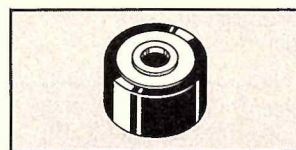
#72-365....\$6⁵⁰₍₁₋₉₎....\$5⁷⁰₍₁₀₋₂₄₎....\$5¹⁰₍₂₅₋₄₉₎



Cassette Pinch Roller

- Most often used size for cassette tape mechanism ■ Nylon bushing ■ 1/2" outside diameter ■ 1/4" width

#42-970.....69¢₍₁₋₉₎.....59¢_(10-up)



Motors

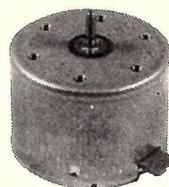
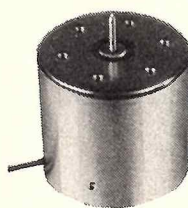
- DC mechanical governor ■ Universal mount ■ 2400 RPM, CW ■ Dimensions: 1 1/2" (Dia.) x 1 3/8" (H) ■ 3/8" shaft length

Order #	Voltage	Current	Price (1-9)	(10-up)
28-405	4.5-7VDC	160mA	\$8.55	\$7.00
28-408	7.5-10VDC	130mA	8.15	6.75
28-410	10-16VDC	110mA	8.15	6.75

Mabuchi Motors

- Variable speed ■ Used in car stereos ■ Low profile ■ 12VDC ■ Dimensions: 1 3/8" (Dia.) x 1" (H) ■ 3/8" shaft length

Order #	Mabuchi#	Rotation	Price (1-9)	(10-up)
28-041	EG-530AD-2F	CW	\$8.40	\$6.95
28-044	EG-530AD-2B	CCW	7.95	6.50



IN CANADA CALL TOLL FREE

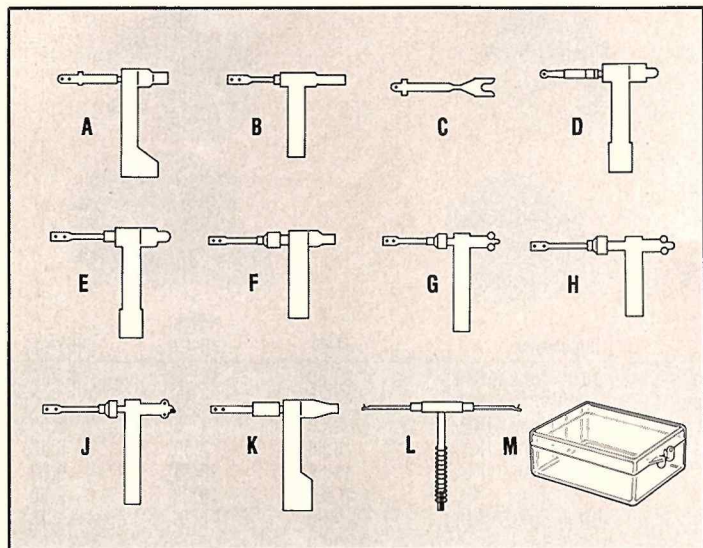
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



TURNTABLE PARTS

Ceramic Styli



All ceramic styli on this page have quality diamond needles.

\$1.80 (1-9) \$1.65 (10-up)

Astatic Type

A. ■ Astatic N50, N60, N62, N68, N70 ■ Cartridge 133, 137, 138, 140, 142, 146, 148, 192, 233, 237, 459, 483, 485, 496, 497, 610, 612, 614, 616, 667 series
#40-020

B. ■ Astatic NS ■ Cartridge 163, 177, 195, 669 series; also replaces single tip version
#40-040

C. ■ Astatic N7-7, N7-8 ■ Cartridge 70, 74, 76, 78, 80, 86, 118, 120, 124, 310-7, 320, 322, 324, 350, 434, 472, 474, 603, 631-639, 643, 654, 661 series
#40-060

BSR Type

D. ■ BSR ST8, ST9, ST10 ■ Cartridge X1H, X1HE, X2HE, X3H, X3M, X4H, X5H, X5M, SX1H, SX2H, SX5H, SX5M, SC5H
#40-100

E. ■ BSR ST12, ST19, ST15 ■ Cartridge SC5M, X5M
#40-120

F. ■ BSR ST-16, 17, 19, 20, 21 ■ Cartridge SC-7M1, 2, 3, 4, SL-8M1, 2, 3, 4
#40-140

G. ■ BSR TC8RS, TC8R ■ Cartridge TC8H, TC8S series
#40-060

Magnavox Type

B. ■ Magnavox 560350-1, 2; 560355-1, 2 ■ Cartridge EPC-27 series. EPC-70
#40-040

Ronette Type

C. ■ Ronette 5304 ■ Cartridge DT, NE, RA, TO
#40-060

Tetrad Type

G. ■ Tetrad stylus 50, 60 series except 52D and 64S; A, B, C series except A2S, BOD
#40-280

H. ■ Tetrad stylus 10, 30, 70, 80, 90 series except 11S, 3LD and 74D
#40-300

J. ■ Tetrad stylus 20, 40 series except 22D and 41S; E and 6 series except E2S and 63D
#40-320

Varco Type

C. ■ Varco TO-L, ST-40, SS-L, NBS-12, 13, 14 ■ Fits Cartridge SN, TO, ST series except SN-45, TO-55 and ST-4X
#40-060

K. ■ Varco TN-4, NTO-7, 10 ■ Cartridge TN-4 series
#40-380

Zenith Type

L. ■ Zenith S-68566-7 ■ Cartridge 142-150, 1; 142-163, 6, 8
#40-400

\$1.90 (1-9) \$1.70 (10-up)

M. Display Boxes

■ Convenient plastic boxes for resale purposes ■ Dimensions: 1 3/4" (W) x 2 1/8" (L) x 3/4" (D)
■ Minimum ten

#21-450 35¢ (10-24) 26¢ (24-49)

Ceramic Cartridges

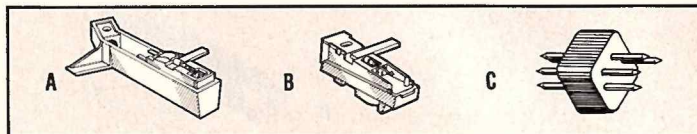
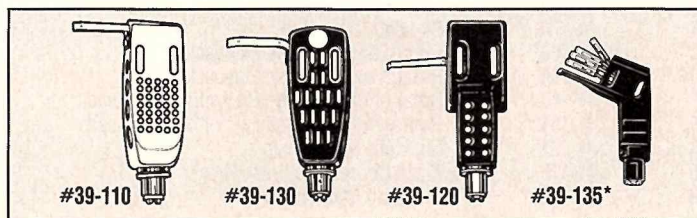


Figure	Order #	Replacement For	Manufacturer #	Replacement Styli	Price (1-9)	Price (10-up)
A	39-200	BSR	SC7M2D	40-140	\$4.75	\$4.20
B	39-220	BSR	TC8H1D	40-280	6.75	6.10
C	40-650	Tetrad	Cart. Plug	—	.75	.65

Head Shells



■ Universal replacements for Japanese type plug-in tone arms ■ Top quality construction with lead wires ■ Sorry—no mixing of types for quantity pricing.
*Fits most straight tone arms

#39-110 Aluminum

#39-120 Black

\$3.50 (1-9)

#39-130 Black

#39-135* Black

\$3.35 (10-99)

\$3.15 (100-up)

Turntable Belt Kit

■ Kit contains: One each of the five most commonly used belts

I.C. (")	Width (")	Thickness (")
20.7	.250	.020
23.6	.250	.020
25.0	.250	.020
35.1	.250	.020
38.8	.250	.020

#42-950 .. \$10.95 (1-9 kits) ... \$10.40 (10 kits-up)

23.6" Turntable Belt

■ Used in many turntables, including Pioneer ■ Most popular turntable belt
■ Minimum ten

#42-650 \$1.25 (10-up)

Idler Wheels

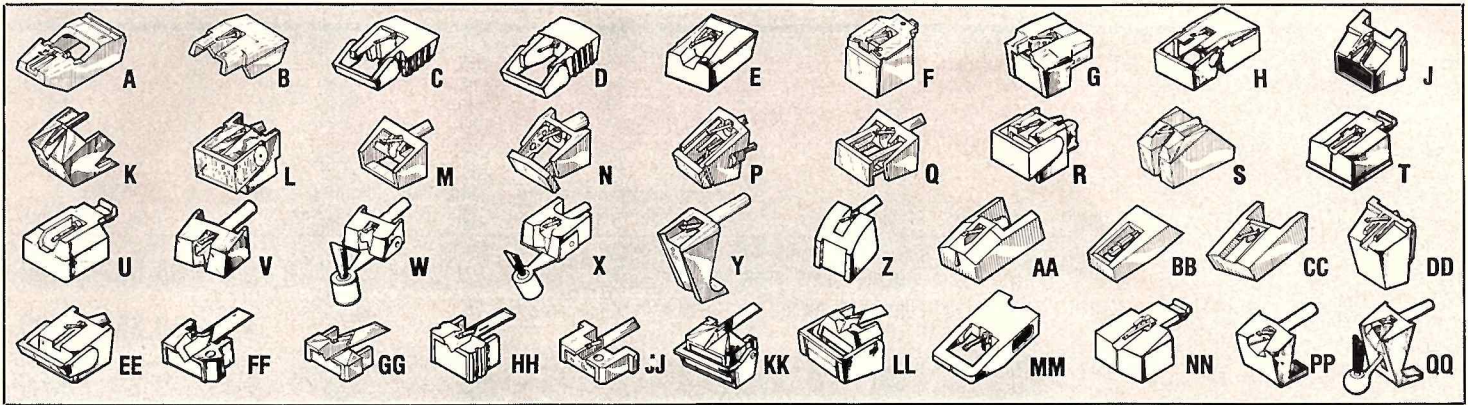


Order #	Type/Application	Outside/Inside Diameter	Price (1-9)	Price (10-up)
42-020	BSR Used on all models except 710/810, 129R2/H/5, EV game 1499-34	1.59" O.D. .157" I.D.	\$3.95	\$3.50
42-100	VM Used on VM1220, 1230 and 1250 series, also model 314 and 805, EV game 1496-05	1.87" O.D. .120" I.D.	4.65	4.10



CALL TOLL FREE 1-800-543-4330

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1-800-824-9491



All of our magnetic styli have quality diamond needles.

ADC Type

A. ■ ADC K8 ■ Blue ■ Diamond

#40-430 \$7²⁵₍₁₋₉₎ \$6⁶⁵_(10-up)

A. ■ ADC K8E ■ Blue elliptical ■ Diamond

#40-440 \$8⁴⁵₍₁₋₉₎ \$7⁵⁰_(10-up)

A. ■ For cartridge QLM 30/MK111 ■ Replaces stylus RSQ-30

#40-690 \$7²⁵₍₁₋₉₎ \$6⁶⁵_(10-up)

A. ■ For cartridge QLM34/MK111 ■ Replaces stylus RSQ-34

#40-700 \$9⁹⁰₍₁₋₉₎ \$9²⁰_(10-up)

Original Audio-Technica

B. ■ Original Audio-Technica stylus replaces AT10 cartridges (red) ■ Diamond ■ ATS10

#40-450 \$10²⁵₍₁₋₉₎ \$9¹⁵_(10-up)

B. ■ Original Audio-Technica stylus replaces AT11 cartridge (green) ■ .4 x .7 elliptical ■ Diamond ■ ATS11E

#40-460 \$13⁷⁵₍₁₋₉₎ \$12⁷⁰_(10-up)

B. ■ Original Audio-Technica stylus replaces AT12 cartridge (blue) ■ .4 x .7 nude elliptical ■ Diamond ■ ATS12 ■ VS220E

#40-470 \$16⁴⁰₍₁₋₉₎ \$14⁸⁰_(10-up)

C. ■ Original Audio-Technica stylus replaces AT12 cartridge (caramel) ■ .3 x .7 nude elliptical ■ Diamond ■ ATN12XE ■ AT4012XE

#40-480 \$21⁴⁵₍₁₋₉₎ \$19²⁰_(10-up)

D. ■ Original Audio-Technica stylus replaces AT13 cartridges (orange) ■ .2 x .7 nude elliptical ■ Diamond ■ ATS13E ■ PR013E

#40-490 \$32⁷⁰₍₁₋₉₎ \$27⁴⁰_(10-up)

D. ■ Original Audio-Technica stylus replaces AT14 cartridge (burgundy) ■ Nude Shibata ■ Diamond ■ ATS14 ■ AT53W3

#40-500 \$32⁴⁰₍₁₋₉₎ \$28⁸⁰_(10-up)

E. ■ Original Audio-Technica stylus replaces AT3400 ■ Sony ND138G

#40-715 \$12⁰⁵₍₁₋₉₎ \$11²⁵_(10-up)

B. ■ Original Audio-Technica stylus replaces cartridge AT8V; VM 6000D, 6009D; Denon; JVC MD1014; Magnavox 560356-1; Panasonic EPC82 ■ Needles EV2660D, 2669D; JVC

#40-725 \$8⁵⁰₍₁₋₉₎ \$7⁹⁵_(10-up)

F. ■ Original Audio-Technica stylus replaces AT3600, 3600L, and AT3601; Yamaha N-7700; Sharp STY 123, 24

#40-720 \$12⁰⁵₍₁₋₉₎ \$11²⁵_(10-up)

G. ■ Original Audio-Technica stylus replaces AT70 cartridge; Panasonic EPS74STSD

#40-730 \$12⁰⁵₍₁₋₉₎ \$11²⁵_(10-up)

H. ■ Original Audio-Technica stylus replaces AT120E ■ Elliptical

#40-735 \$12⁹⁰₍₁₋₉₎ \$12³⁰_(10-up)

J. ■ Original Audio-Technica stylus replaces cartridge AT750; Sanyo ST-41D

#40-740 \$7⁴⁰₍₁₋₉₎ \$6⁸⁰_(10-up)

H. ■ Original Audio-Technica stylus replaces AT125LC ■ Linear contact titanium bonded stylus

#40-950 \$56⁷⁰₍₁₋₉₎ \$50⁴⁰_(10-up)

Empire Type

K. ■ Cartridge 205LT ■ Elliptical diamond

#40-752 \$7⁸⁰₍₁₋₉₎ \$6⁹⁵_(10-up)

L. ■ Cartridge 105LT ■ Spherical diamond

#40-757 \$6⁵⁰₍₁₋₉₎ \$5⁹⁰_(10-up)

L. ■ Cartridge 245E ■ Elliptical diamond

#40-762 \$10⁵⁰₍₁₋₉₎ \$9³⁰_(10-up)

M. ■ Empire 66X ■ Diamond

#40-520 \$6⁵⁰₍₁₋₉₎ \$5⁹⁰_(10-up)

N. ■ Empire 909/X, 999VE/X, 1000 ■ Diamond

#40-530 \$7⁸⁰₍₁₋₉₎ \$6⁹⁵_(10-up)

P. ■ Stylus S400TC ■ For 400TC cartridge

#40-750 \$12⁹⁰₍₁₋₉₎ \$12³⁰_(10-up)

Q. ■ Stylus S2000 ■ For cartridge 2000

#40-760 \$6⁹⁵₍₁₋₉₎ \$6⁵⁰_(10-up)

Q. ■ Stylus S2000E/111 ■ For cartridge S2000E

#40-765 \$13⁷⁵₍₁₋₉₎ \$12⁶⁰_(10-up)

Ortofon Type

R. ■ Ortofon FF-15E ■ Diamond

#40-540 \$8⁷⁵₍₁₋₉₎ \$7⁹⁵_(10-up)

Panasonic Type

S. ■ Stylus EPS202 ■ For EPC-202 cartridges

#40-795 \$6⁹⁵₍₁₋₉₎ \$6⁵⁰_(10-up)

T. ■ Stylus EPS-37 ■ For EPC07STAD cartridges

#40-805 \$3⁹⁵₍₁₋₉₎ \$3²⁵_(10-up)

U. ■ Stylus EPS-41

#40-810 \$3⁴⁵₍₁₋₉₎ \$2⁹⁰_(10-up)

Pickering Type

V. ■ Pickering AT-1, 2; AM-1, 2 ■ Diamond

#40-550 \$5⁸⁵₍₁₋₉₎ \$4⁸⁵_(10-up)

V. ■ Stylus PD07C ■ For NP/AC cartridges

#40-980 \$5⁵⁰₍₁₋₉₎ \$4⁹⁵_(10-up)

V. ■ Stylus D1507DJ ■ For V-15/DJ cartridges

#40-985 \$17⁵⁰₍₁₋₉₎ \$16²⁵_(10-up)

V. ■ Stylus DJP ■ For 625 DJ cartridges

#40-1000 \$14⁵⁰₍₁₋₉₎ \$13²⁵_(10-up)

W. ■ V-15, AME-3, ACE-3, AM-3, AT-3, AC-3 ■ Diamond

#40-555 \$9⁵⁰₍₁₋₉₎ \$8⁹⁵_(10-up)

X. ■ Stylus D625E ■ Cartridge XV-15/625E

#40-815 \$9⁵⁰₍₁₋₉₎ \$8⁹⁵_(10-up)

Y. ■ Stylus DL-2s ■ For TLS cartridges

#40-990 \$18⁵⁰₍₁₋₉₎ \$17²⁵_(10-up)

Y. ■ Stylus DLE ■ For TLE cartridges

#40-995 \$9⁹⁵₍₁₋₉₎ \$8⁹⁵_(10-up)

Pioneer Type

Z. ■ Cartridge PC-12, PC-110, PC-110/11 and PC-150

#40-835 \$6⁵⁰₍₁₋₉₎ \$5⁹⁰_(10-up)

Sanyo Type

AA. ■ Replaces Sanyo/Fisher ST-07 ■ Diamond

#40-1010 \$5⁹⁵₍₁₋₉₎ \$5⁴⁵_(10-up)

BB. ■ Replaces Fisher #4-156T-04400 ■ Used in Sanyo model DXT600

#40-1020 \$4⁹⁵₍₁₋₉₎ \$3⁹⁵_(10-up)

CC. ■ Replaces Sanyo/Fisher ST-09 ■ Diamond

#40-1015 \$7³⁰₍₁₋₉₎ \$6³⁰_(10-up)

DD. ■ Stylus ST38D ■ Cartridge MG-38 ■ Also replaces Audio-Technica AT892

#40-840 \$6⁹⁵₍₁₋₉₎ \$6⁵⁰_(10-up)

EE. ■ Stylus ST44 ■ Cartridge MG-44

#40-845 \$7⁵⁰₍₁₋₉₎ \$6⁶⁵_(10-up)

Shure Type

FF. ■ Replaces Shure N-44 styli ■ Diamond

#40-560 \$5²⁵₍₁₋₉₎ \$4³⁰_(10-up)

GG. ■ Replaces Shure N-75 styli ■ Diamond

#40-570 \$5²⁵₍₁₋₉₎ \$4³⁰_(10-up)

HH. ■ Replaces Shure N-91 styli ■ Diamond

#40-580 \$5⁸⁵₍₁₋₉₎ \$4⁸⁵_(10-up)

JJ. ■ Stylus N70B ■ Cartridge M70B

#40-860 \$4⁷⁵₍₁₋₉₎ \$3⁹⁵_(10-up)

JJ. ■ Stylus N70EJ ■ Cartridge M70EJ

#40-865 \$6⁹⁵₍₁₋₉₎ \$6⁵⁰_(10-up)

KK. ■ Cartridge #15 type III stylus ■ VN35E ■ Elliptical

#40-870 \$15⁶⁵₍₁₋₉₎ \$14⁹⁰_(10-up)

LL. ■ Replacement stylus for Shure cartridge M95ED ■ Replaces Shure stylus N95ED ■ Elliptical

#40-900 \$12⁵⁵₍₁₋₉₎ \$11⁸⁰_(10-up)

MM. ■ Sony VL100G ■ Green ■ Diamond

#40-590 \$8⁷⁵₍₁₋₉₎ \$7⁷⁵_(10-up)

NN. ■ Cartridge VX-23P ■ Needle ND127P

#40-875 \$3⁹⁵₍₁₋₉₎ \$3¹⁵_(10-up)

Stanton Type

PP. ■ Stanton 500/500A ■ Diamond

#40-600 \$7⁸⁰₍₁₋₉₎ \$6⁹⁵_(10-up)

QQ. ■ Stanton 681A ■ Diamond

#40-610 \$9⁹⁵₍₁₋₉₎ \$9⁰⁵_(10-up)

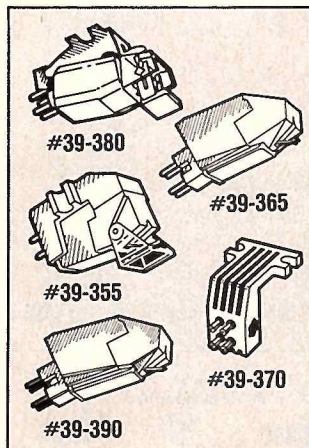
QQ. ■ Replacement stylus for 680EL

#40-975 \$12⁸⁰₍₁₋₉₎ \$11⁹⁵_(10-up)



CARTRIDGES AND AUDIO ACCESSORIES

EMPIRE

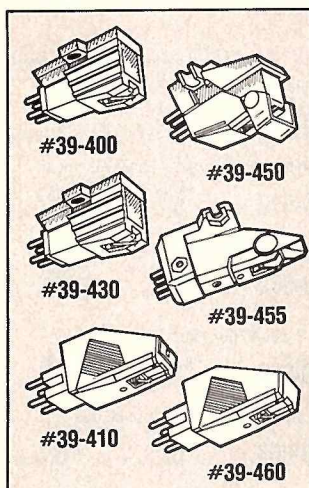


Empire is one of the oldest and most renowned names in phono cartridges. From the well-known and very popular 2000 to the modern sleek design 205LT, Empire offers an economical line of phono cartridges. All Empire phono cartridges are guaranteed against defects in material and workmanship for a period of two years from the date of purchase. Each phono cartridge is display packed for resale.

2 YEAR LIMITED WARRANTY

Order #	Empire #	Stylus Type	Frequency Response	Tracking Grams	Mounting Type	Channel Separation	List Price	Price (1-9)	Price (10-up)
39-380	2000	Conical diamond, aluminum cantilever	20Hz-20KHz	1.5-3	1/2"	24dB	\$39.95	\$8.50	\$7.90
39-355	245E	Elliptical diamond	20Hz-20KHz	1.5-2.25	1/2"	27dB	69.95	10.35	9.80
39-390	105LT	Spherical diamond	20Hz-20KHz	1.25-1.5	P	22dB	49.95	9.25	8.50
39-365	205LT	Elliptical diamond	20Hz-20KHz	1.25-1.5	P	27dB	69.95	11.90	9.95
39-370	—	P-mount cartridge adaptor	—	—	—	—	4.95	1.85	1.35

audio-technica



Audio-Technica cartridges are a significant achievement in precision manufacturing. Completely hand assembled, tolerances are held to just a thousandth of an inch. The dual magnet series of phono cartridges is the latest refinement of craftsmanship and advanced design.

1 YEAR LIMITED WARRANTY

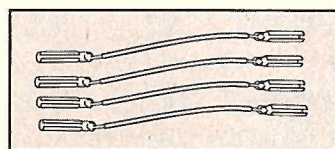
Order #	Stylus Color	Stylus Type	Frequency Response	Tracking Grams	Mounting Type	Channel Separation	List Price	Price (1-9)	Price (10-up)
39-400	Red	Spherical diamond	20-20KHz	1.5-2.5	1/2"	1KHz = 25dB 10KHz = 15dB	\$45.00	\$12.50	\$11.80
39-430	Green	Bi-radial, elliptical nude diamond	15-25KHz	1-2.5	1/2"	1KHz = 26dB 10KHz = 17dB	60.00	15.50	14.80
39-410	Ivory	Bi-radial diamond	15-25KHz	1-1.5	P 1/2"	1KHz = 26dB 10KHz = 17dB	65.00	16.95	15.50
39-450	Ivory	Linear contact titanium bonded	10-28KHz	1-1.8	1/2"	1KHz = 30dB 10KHz = 20dB	150.00	49.95	47.80
39-455	Ivory	Linear contact titanium bonded	10-30KHz	1-1.5	P 1/2"	1KHz = 31dB 10KHz = 21dB	145.00	49.95	47.80
39-460	Black	Conical diamond (Same cartridge used by many OEMs in rack systems)	20-20KHz	2-3	P	1KHz = 20dB 10KHz = 17dB	—	10.95	9.95

audio-technica

Cartridge Lead Wire

■ Set of four ■ Color coded: Red, white, green and blue ■ 1 1/2" long, with cartridge pin plugs on each end

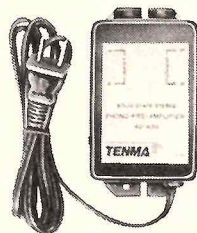
#40-640 95¢ (1-19 sets) 75¢ (20 sets-up)



Stereo Phono Preamp

■ 30Hz-20KHz response ■ 6mV input produces 500mV out ■ 50Kohm impedance ■ SN ratio over 60dB ■ Uses standard 117VAC ■ For use with amplifiers without a magnetic phono preamp

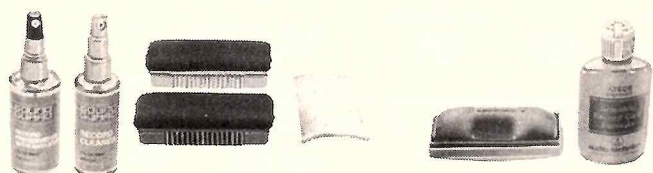
#40-630 \$11¹⁵ (1-9) \$10¹⁵ (10-up)



audio-technica. Total Care Kit

■ Removes dust and oily fingerprints ■ Eliminates static build-up ■ Safe for all records ■ Kit contains: Cleaner, preservative, two buffers, sponge and instructions ■ Limited quantities

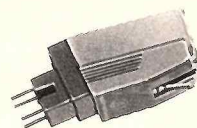
#58-230 \$9⁹⁵ (kit)



Magnetic Cartridge

■ #M12E/U ■ Bi-radial stylus ■ Unique Vector aligned twin magnet structure assures outstanding channel separation ■ 15Hz-25KHz frequency response ■ 26dB channel separation ■ Universal adaptor can be used for either P-mount or 1/2" mount ■ Limited quantities

#58-240 \$25⁰⁰ (ea.)



Deluxe Record Cleaning Kit

■ Dissolves fingerprints and other record contaminants ■ Safe for vinyl records ■ Internal reservoir releases fluid as needed ■ Limited quantities

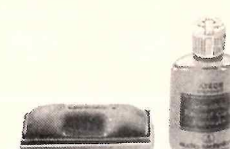
#58-270 \$14⁵⁰ (kit)



Record Cleaning Kit

■ Special fibers lift dirt from grooves ■ Internal reservoir releases fluid accurately ■ Convenient storage base ■ Limited quantities

#58-260 \$8⁹⁵ (kit)



HEADPHONE/MICROPHONES

audio-technica Headphones

ATH909 Headphones

■ From high-flux samarium cobalt magnets, to a 99.9% pure copper cord, these headphones utilize the latest technology available ■ 44mm driver elements provide extended frequency response and distortion-free sound ■ Cloth-covered foam cushions create a very comfortable fit ■ Sensitivity: 100dB SPL ■ Frequency response: 20Hz-20KHz ■ Impedance: 30ohm ■ 10' cord with a 1/4" phone plug

#35-370 \$79⁹⁵ (ea.)

SG600CD Headphones

■ These headphones combine excellent bass reproduction with lightweight design which makes them great for portable CD players ■ Frequency response: 20Hz-20KHz ■ Impedance: 4-16ohm ■ 6' straight cord with a 3.5mm plug ■ 3.5mm to 1/4" adaptor included

#35-365 \$19⁹⁵ (ea.)

SG450 Headphones

■ The ultimate in lightweight turbo type headphones with big sound ■ Frequency response: 20Hz-20KHz ■ Impedance: 4-16ohm ■ 3' straight cord with 3.5mm stereo phone plug ■ 3.5mm to 1/4" adaptor included

#35-325 \$9⁷⁵ (ea.)

SG430 Earbud Headphones

■ Great for use during athletics ■ Earpieces fit securely in the ear without a headband that can interfere with movement ■ Frequency response: 35Hz-20KHz ■ Impedance: 4-16ohm ■ 3 1/2' cord with 3.5mm adaptor

#35-375 \$7⁹⁵ (1-9) \$7⁴⁵ (10-up)

Lightweight Headphones

■ These lightweight headphones deliver full size sound ■ 30mm dynamic mylar speaker ■ 32ohm impedance ■ 20Hz-20KHz frequency response ■ 10' straight cord with 3.5mm plug ■ 3.5mm to 1/4" adaptor included

#35-320 \$13¹⁰ (1-9) \$12²⁵ (10-up)

Featherweight Micro Headphones

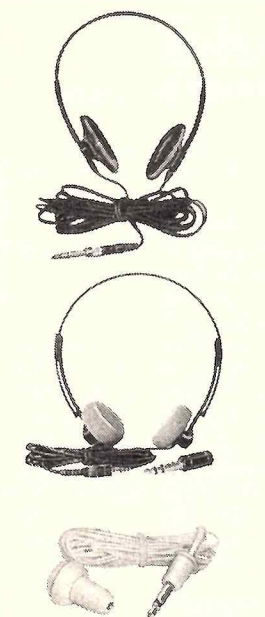
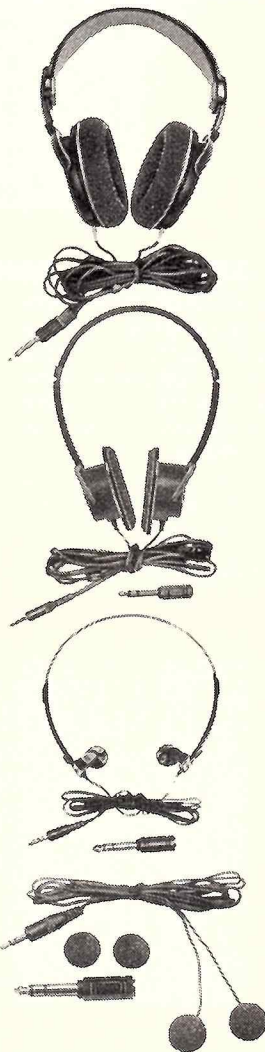
■ Frequency response: 20Hz-20KHz ■ Speaker: 27mm mylarcon ■ Unit impedance: 32ohm ■ Maximum input level: 10mW ■ 4' straight cord with 3.5mm plug ■ 3.5mm plug to 1/4" adaptor included ■ Display packaged

#35-100 \$3⁵⁰ (1-9) \$3¹⁵ (10-up)

Earphone

■ 3.5mm miniature plug ■ 3' cord

#28-005 85¢ (ea.)



NEW

Headphone Extension/Volume Control

■ 3' stereo extension with volume control ■ Allows independent volume control when using two headphones with one walkman ■ Handy pocket clip puts volume control at your fingertips ■ 3.5mm stereo plug to 3.5mm stereo jack

#24-1075 \$8⁹⁵ (1-9) \$8⁵⁰ (10-up)

audio-technica Microphones

Professional Microphone

■ Professional quality microphone designed for both vocal and instrument miking

■ Unidirectional (cardioid) polar pattern

■ Frequency response: 60Hz-15KHz

■ Sensitivity: -56dB ■ Impedance:

500ohm ■ Element: Moving coil dynamic

■ Dimensions: 6" long, 2" head diameter,

1 7/32 to 7/8" tapered body ■ Cable: Detachable 20' XLR to 1/4" phone plug

■ Stand clamp included ■ Audio-Technica #ATR30

#35-335 \$51⁶⁰ (ea.)

Vocal/Instrument Microphone

■ Unidirectional (cardioid) polar pattern

■ Frequency response: 80Hz-12KHz

■ Sensitivity: -59dB ■ Impedance:

500ohm ■ Element: Moving coil dynamic

■ Dimensions: 7" long, 2 1/16" head diameter,

1 11/32 to 1 3/16" tapered body ■ Cable: 16 1/2' with

1/4" phone plug ■ Stand clamp included ■ Audio-Technica #PRO 1A

#35-260 \$44⁵⁰ (ea.)

Unidirectional Microphone

■ Unidirectional (cardioid) polar pattern

■ Frequency response: 80Hz-12KHz

■ Sensitivity: -56dB ■ Impedance:

500ohm ■ Element: Moving coil dynamic

■ Dimensions: 6 1/2" long, 2 3/32" head diameter,

1 9/32" tapered body ■ Cable: 10' with 3.5mm

plug (1/4" adaptor supplied) ■ Desk stand included ■ Audio-Technica #ATR20

#35-340 \$23⁸⁵ (ea.)

Matching Transformer with Switch

■ Allows low impedance microphones to be used with high impedance equipment

■ Switchable from low to high impedance

■ 500ohm-50Kohm ■ XLR to 1/4" phone plug

#35-360 \$11⁹⁵ (1-4) \$10⁹⁵ (5-up)

TENMA™ 13" Flexible Gooseneck

■ A flexible metal gooseneck designed to attach a microphone stand and holder

■ Flexes 180° in any direction ■ Chrome finish

#35-345 \$5²⁵ (1-4) \$4²⁰ (5-up)

TENMA™ Gooseneck Mount

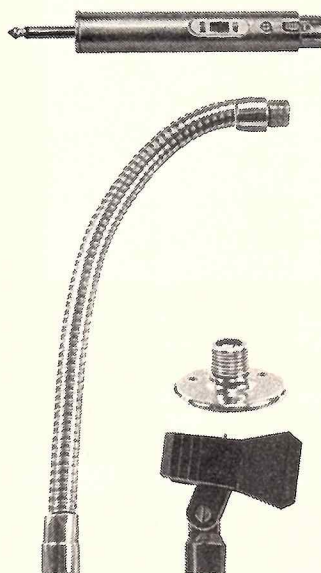
■ Mounts gooseneck or any standard 5/8" microphone holder ■ Chrome finish

#35-355 \$1⁹⁵ (1-4) \$1⁷⁵ (5-up)

TENMA™ Clip Type Holder

■ Holds microphones with a handle up to 1 5/8" ■ Screws on a standard 5/8" stand or gooseneck ■ Adjustable direction

#35-350 \$4¹⁰ (1-9) \$3⁶⁰ (10-up)



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MIXERS



PYRAMID Stereo Mixer

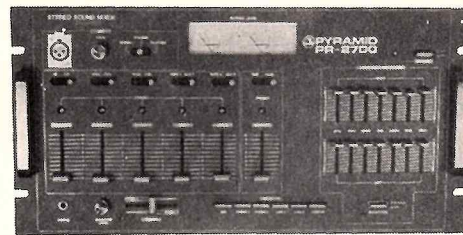
Economical mixer for use by DJs.

Features: ■ Four inputs with slide pot level controls ■ Slide pot fader for smooth transition from input A to B ■ Headphone monitor switches allow cuing of any input ■ Separate bass and treble controls with 12dB boost/cut range ■ Three position microphone switch with talkover capability ■ Master output levels are displayed on dual V.U. meters ■ Simulated wood cabinet ■ Two outputs

Specifications: ■ Frequency response: 20Hz-20KHz ■ Distortion: Less than 0.05% ■ Power requirement: 110/220VAC, 60Hz ■ Dimensions: 13" (W) x 3 1/2" (H) x 9" (D)

#80-390

\$79⁹⁵
(ea.)



PYRAMID Stereo Mixer Equalizer

Versatile rack mountable mixer with equalizer.

Features: ■ Five inputs with slide pot level controls and preset volume pots ■ Slide pot fader for smooth transition from turntable A to B ■ Headphone monitor switches will allow cuing of any input ■ Monitor volume control ■ Three position microphone switch with talkover capability ■ Master output level displayed on dual V.U. meters ■ Two microphone inputs with level controls ■ 14 band stereo equalizer with bypass switch ■ Two outputs

Specifications: ■ Frequency response: 20Hz-20KHz ■ Distortion: Less than 0.05% ■ Boost/cut range: 12dB ■ Power requirement: 110/220VAC, 60Hz ■ Dimensions: 19" (W) x 9 1/2" (H) x 4" (D)

#80-385

\$155⁰⁰
(ea.)

PYRAMID Stereo Mixer Equalizer

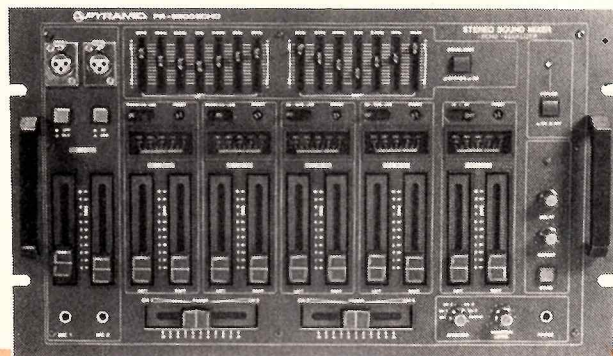
Feature-packed rack mountable mixer with equalizer and echo.

Features: ■ 14 band stereo equalizer with 12dB boost/cut range ■ Echo circuitry with delay and repeat controls ■ Four stereo channels with three inputs per channel, individual V.U./LED meters, and preset volume pots ■ Two independent microphone inputs with slide controls and XLR and 1/4" inputs ■ Master volume control with V.U./LED meter ■ Headphone monitor switch with volume control allows cuing of any input ■ Fader controls for channels 1 and 2 and channels 3 and 4 ■ Two outputs

Specifications: ■ Frequency response: 20Hz-20KHz ■ Distortion: Less than 0.08% ■ Power requirement: 110/220VAC, 60Hz ■ Dimensions: 19" (W) x 11" (H) x 4" (D)

#80-380

\$245⁰⁰
(ea.)



AM100 Stereo Mixer

Economical mixer manufactured by Audio-Technica. Ideal for DJ.

Features: ■ Five inputs with slide pot level controls ■ Slide pot for smooth turntable cross-fade ■ Six position headphone monitor with level control allows user to cue any input ■ Separate bass and treble controls for sound contouring

■ Built-in 10dB mute for "talkover" capability ■ Master output levels are displayed on dual V.U. meters

Specifications: ■ Output: 0.775V ■ Frequency response: 30Hz-20KHz, less than 1% distortion ■ Power requirement: 120VAC, 60Hz ■ Dimensions: 12 1/2" (W) x 8 1/4" (H) x 2 3/4" (D)

#80-310

\$105⁵⁰
(ea.)



MCM carries
the name brands
you trust



AM300E Stereo Mixer

Top quality rack mountable mixer manufactured by Audio-Technica. Perfect for professional and amateur DJ use.

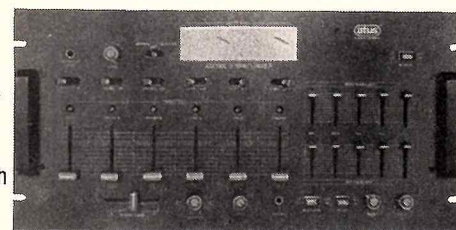
Features: ■ Echo circuit with continuously adjustable "repeat" and "delay" ■ Built-in, five band per channel graphic equalizer with in/out switch ■ Ten switchable inputs with five slide and one rotary level control ■ Slide pot for smooth turntable cross-fade

■ Six position headphone monitor allows user to cue any input ■ Built-in 20dB mute and 10dB microphone "talkover" circuits ■ Master output levels are displayed on dual V.U. meters

Specifications: ■ Output: 0.775V/1.22V (+4dBu) ■ Frequency response: 30Hz-20KHz, less than 1% distortion ■ Equalizer center frequency: 60Hz, 250Hz, 1KHz, 4KHz, and 12KHz ■ Boost/cut range: ±12dB at center frequency ■ Power requirement: 120VAC, 60Hz ■ Dimensions: 19" (W) x 4 1/16" (H) x 9 1/2" (D)

#80-315

\$229⁹⁵
(ea.)



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AUDIO AND CD ACCESSORIES



Cassette

TENMA™

Cassette Head Cleaner

■ The fast and simple way to clean record/playback head, erase head, capstan and pinch rollers ■ Special cleaning fluid included ■ Display packaged

#38-125 \$2⁷⁵ (1-9) \$2³⁰ (10-up)

Cassette Replacement Boxes

■ Used to replace scratched or broken cassette boxes ■ Four per package

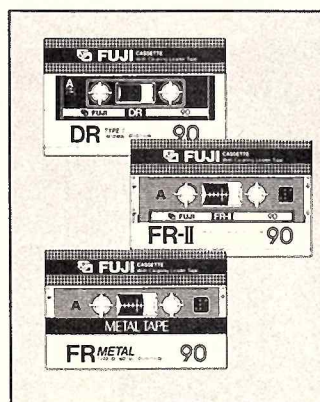
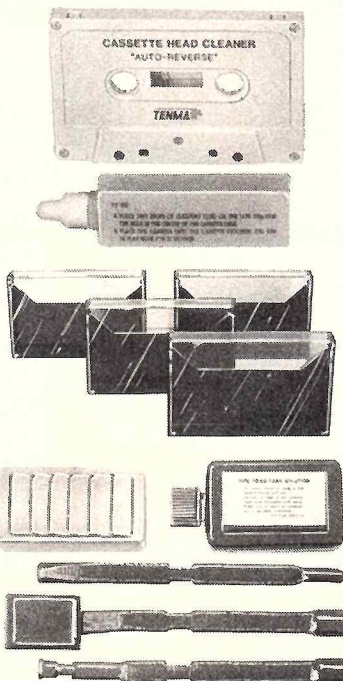
#80-365 ... 99¢ (1-9 pkgs.) ... 79¢ (10 pkgs.-up)

Tape Head Maintenance Kit

■ A complete head cleaning system ■ All components are packaged in a standard cassette case ■ Display packaged

Kit contains: A felt tipped probe, cleaning solution, brush, mirror and six replacement felt pads

#38-170 \$1⁷⁵ (1-9 kits) \$1²⁵ (10 kits-up)



Fuji Cassettes

All Fuji cassettes have a special head cleaning leader which also features one-second interval timing marks, and a specially engineered cassette shell for low friction and long tape life.

DR Type I

■ Normal bias

FR Type II

■ High (CrO₂) bias

FR Metal Type IV

■ Highest quality cassette tape that modern technology can create ■ Metal bias

Order #	Description	Recording Time	EQ	List Price (ea.)	MCM Price (1-9)	MCM Price (10-up)
38-140	DR	60 mins.	120μs	\$2.75	\$1.35	\$1.25
38-145	DR	90 mins.	120μs	3.80	1.95	1.75
38-150	FR II	60 mins.	70μs	4.35	2.98	2.75
38-155	FR II	90 mins.	70μs	5.95	3.25	2.95
38-160	FR Metal	60 mins.	70μs	6.35	4.25	3.95
38-165	FR Metal	90 mins.	70μs	8.60	5.10	4.95

SEE PAGE 113 FOR OUR HEAD DEMAGNETIZER AND BULK TAPE ERASER

CD

Automatic CD Cleaner

■ Motorized chamois cleaning system provides true radial cleaning ■ Cleaner automatically stops when finished ■ Can be used wet or dry ■ 1 oz. bottle of cleaning fluid included ■ Operates on four "AA" batteries (not included)

#80-320 \$27⁹⁵ (ea.)

Replacement Cleaning Fluid

1 oz.
#80-360 \$1⁵⁰ (1-9) \$1³⁵ (10-up)

CD Lens Cleaner

■ This cleaner is a digitally encoded CD with a built-in ultra fine brush that will safely clean the optical lens of your CD player ■ A dirty lens can cause CDs to skip and distort ■ Removes dirt, dust and smoke from lens in less than ten seconds ■ (Not for stacking CD changers)

#80-440 \$29⁹⁵ (ea.)

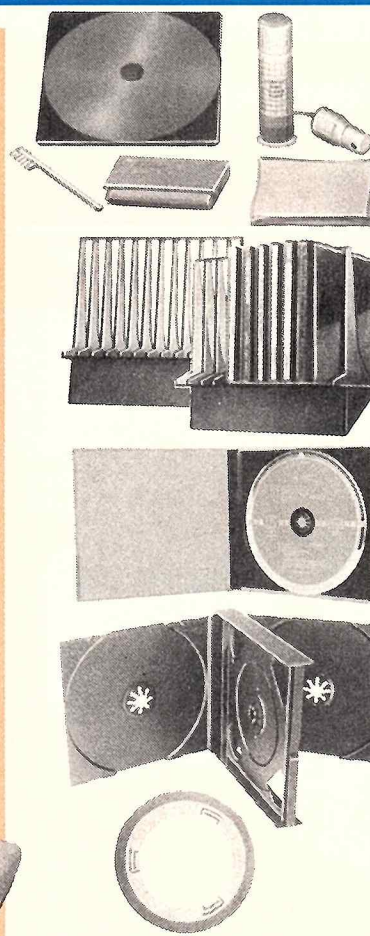
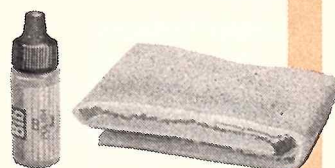
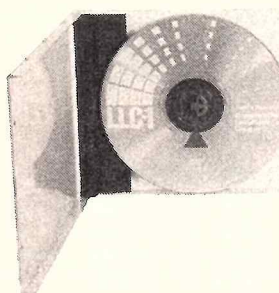
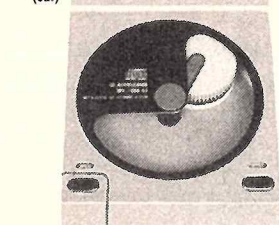
Bib Compact Disc Polish

■ Cleans and polishes CDs ■ Protects CDs from dust and fingerprints ■ Special anti-static formula ■ Prevents CD skipping ■ Good for 200 cleanings ■ Includes polish and polishing cloth

#80-435 \$7⁹⁵ (ea.)

Replacement Chamois Wheel

#80-321
\$1⁵⁰ (ea.)



CD Cleaning Kit

■ Quickly removes fingerprints and smudges from CDs ■ Stores in clear folder box for convenience

Kit contains: Cleaning base, fluid in spray bottle, lambskin wiper, cleaning cloth, and hard brush

#80-260 \$6⁴⁰ (1-9 kits) \$5⁹⁵ (10 kits-up)

CD Storage Rack

■ Keep your CDs neat and organized ■ Stores CDs vertically as recommended ■ CDs slide in and out for easy selection ■ Set of two; holds 24 CDs

#80-270 \$6²⁵ (set)

CD Jewel Boxes

■ Will replace scratched or broken CD cases ■ Two per package

#80-265 \$1⁹⁵ (1-9 pkgs.) \$1⁵⁰ (10 pkgs.-up)

Multipack CD Jewel Box

■ Stores more CDs in less space ■ Holds up to four CDs ■ Approximate width of two single disk jewel boxes

#80-355 \$1⁸⁰ (ea.)

3" CD Adaptor

■ Allows 3" CD singles to be used in CD players designed for 5" CDs ■ Adaptor holds 3" CDs firmly to insure proper tracking

#80-350 69¢ (ea.)

SEE PAGE 112 FOR OUR AUDIO JUMPER CABLES

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SPEAKER ENCLOSURES

AMS Enclosures

These handsome cabinets are finished with genuine oak veneer and come with dark brown fabric grills. They are made of 3/4" acoustic grade particle board for deep and solid bass without coloration. The 12" three-way enclosure is also available in walnut veneer and has a black fabric grill.

All cabinets are made in the USA by AMS; a high-end speaker enclosure manufacturer for over ten years.

Note: Wiring not included.

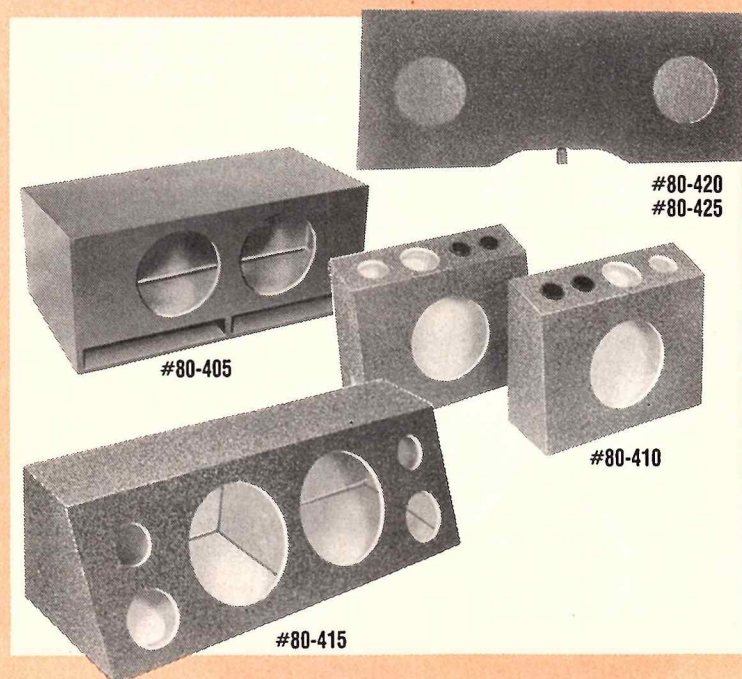


Order #	Type	Finish	Dimensions W x H x D	Opening Dimensions	Cabinet Volume Cu. Ft.	Weight	Price
80-375	6 1/2" Two-way	Oak	8" x 12" x 6 1/4"	5 5/8" woofer, 3" tweeter	.19	18 lbs.	*\$73.50 (pr.)
80-255	8" Two-way	Oak	10" x 15 7/8" x 7 1/4"	7 1/8" woofer, 3" tweeter	.55	27 lbs.	* 84.15 (pr.)
80-330	10" Three-way	Oak	14 1/2" x 25" x 11 1/4"	9 1/8" woofer, 4 1/4" mid., 3" tweeter	1.72	35 lbs.	73.50 (ea.)
80-230	12" Three-way	Oak	14 1/2" x 25" x 11 1/4"	11 1/16" woofer, 4 1/4" mid., 3" tweeter	1.72	35 lbs.	73.50 (ea.)
80-345	12" Three-way	Walnut	14 1/2" x 25" x 11 1/4"	11 1/16" woofer, 4 1/4" mid., 3" tweeter	1.72	35 lbs.	73.50 (ea.)
80-465 NEW		Oak	14 1/2" x 25" x 11 1/4"	Uncut face	1.72	35 lbs.	65.95 (ea.)
80-325	15" Three-way	Oak	18" x 28 1/2" x 15"	13 7/8" woofer, 4 1/4" mid., 3" tweeter	3.48	60 lbs.	99.95 (ea.)
80-235	10" Subwoofer	Oak	17 3/4" x 17 3/4" x 17 3/4"	9 1/8" subwoofer	2.48	44 lbs.	84.15 (ea.)
80-430	12" Subwoofer	Oak	17 3/4" x 17 3/4" x 17 3/4"	11 1/16" subwoofer	2.48	44 lbs.	79.95 (ea.)
80-445	12" Three-way Tower	Oak	14 1/2" x 38" x 11 1/4"	11 1/16" woofer, 4 1/4" mid., 3" tweeter	2.50	55 lbs.	145.00 (ea.)

*Note: Sold in pairs

Power Thrusters

These car speaker enclosures are designed to reproduce extremely deep bass. Their design allows them to fit the vehicle perfectly with no mounting or hole cutting.



Camaro/Firebird Sound Decks

■ 3/4" particle board construction ■ 1/2" poly foam padding ■ Covered with black cloth ■ Fits in trunk over the spare tire well ■ Fits model years 1986-88 ■ Available in 8" and 10" speaker cutouts

#80-420 (8") \$39⁹⁵ (ea.)
#80-425 (10")

Speaker Enclosures for Hatchbacks

■ Two 8" cutouts ■ Painted black finish ■ Resonant frequency for box is 30Hz ■ Cabinet volume: 1.31 cu. ft. ■ Dimensions: 27" (W) x 12" (H) x 13" (D)

#80-405 \$74⁵⁰ (ea.)

Universal Enclosure

■ Perfect for car, truck or van ■ Covered in charcoal gray carpet ■ Cutouts for 10" woofer, 5" midrange and 4" tweeter ■ Comes with port tubes and cup type speaker terminal ■ Cabinet volume: 1.33 cu. ft. each ■ Dimensions: 16 1/4" (W) x 20 1/4" (H) x 7" (D)

#80-410 \$69⁹⁵ (pr.)

Universal Enclosure

■ Perfect for most vehicles ■ Covered in charcoal gray carpet ■ Two 10" woofer, two 5" midrange and two 4" tweeter cutouts ■ Two cup type terminals included ■ Cabinet volume: 1.7 cu. ft. per side ■ Dimensions: 36 3/4" (W) x 11 1/2" (H) x 12 3/4" (D)

#80-415 \$69⁹⁵ (ea.)



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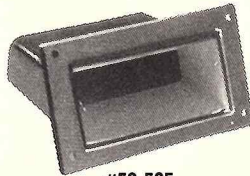
SPEAKER CABINET ACCESSORIES



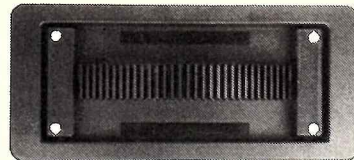
#50-555



#50-560



#50-565



#50-570

Cabinet Handles

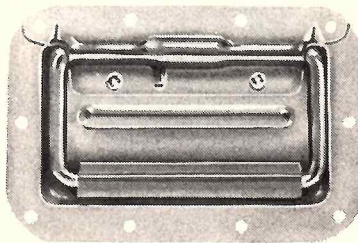
- All handles are made of durable, high-impact plastic ■ Four types available
- Screws not included

Order #	Dimensions	Price (1-3)	(4-9)
#50-555	6 1/2" (W) x 10 5/8" (H) x 2 1/2" (D)	\$5.17	\$4.34
#50-560	1" (W) x 10" (H) x 1/4" (D)	1.80	1.48
#50-565	5 1/2" (W) x 2 3/4" (H) x 2 3/4" (D)	1.20	.98
#50-570	4 1/2" (W) x 9 3/4" (H) x 3/4" (D)	3.60	2.95

Metal Cabinet Handles

- Heavy duty metal construction
- Handle is spring loaded for added convenience ■ Wide rubber grip ■ Ideal for large and heavy cabinets ■ Chrome finish ■ Screws not included

#50-505 ... \$4⁶⁶₍₁₋₃₎ ... \$4⁰¹₍₄₋₉₎ ... \$3⁵²_(10-up)



Speaker Cabinet Feet

- Screw into cabinets to protect them from damage ■ Feet are rubber on top to keep from damaging cabinets and to dampen vibration ■ Screws not included
- Four per package

#50-595 ... \$3⁹³_(1-9 pkgs.) ... \$3²²_(10-24 pkgs.)



Speaker Port

- 2 1/16" diameter x 2 1/2" length ■ Press fit design saves installation time

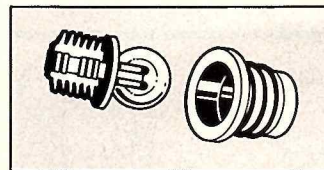
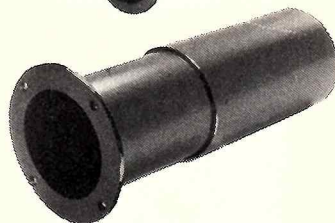
#50-640 ... \$1⁴⁰₍₁₋₄₎ ... 95¢_(5-up)



Adjustable Speaker Port

- Made of high impact black plastic
- Adjustable from 5 1/4"-9 1/2" length
- 2 1/2" port diameter ■ 3 3/4" mounting flange diameter ■ Screws not included

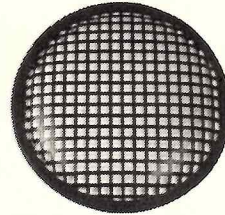
#50-575 ... \$1⁹⁹₍₁₋₃₎ ... \$1⁶³₍₄₋₉₎ ... \$1³⁷_(10-up)



Grill Fasteners

- Ball and socket type fastener ■ These fasteners make removal of grill from speaker cabinet quick and easy ■ Four per bag

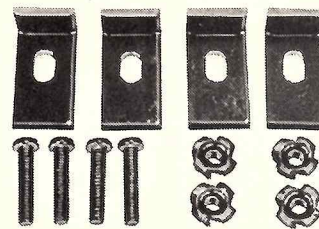
#50-435 ... 95¢_(1-9 bags) ... 78¢_(10-24 bags)



Speaker Grills

- Protect your valuable speakers with these sturdy grills ■ Grills are metal and have a rubber strip surrounding their edge ■ Mount with #50-550 (below) ■ Grills sold individually

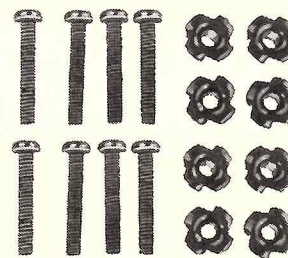
Order #	Diameter	Price (1-3)	(4-9)
#50-510	5"	\$2.80	\$2.30
#50-520	6 1/2"	3.37	2.76
#50-525	8"	4.20	3.44
#50-530	10"	4.26	3.58
#50-535	12"	6.00	5.04
#50-540	15"	8.05	6.77
#50-545	18"	11.00	9.46



Mounting Brackets

- For use with speaker grills listed above ■ Easy to install ■ Screw shaft length: 1 1/8" ■ Black ■ Four per package

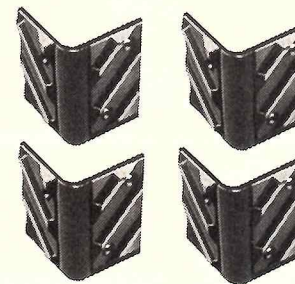
#50-550 ... \$1⁹⁶₍₁₋₉₎ ... \$1⁶⁴₍₁₀₋₂₄₎



Screw Anchor Kit

- Designed to secure drivers in speaker enclosures ■ Anchor fits permanently behind enclosure face to allow repeated removal and replacement of screws and drivers ■ Screw shaft length: 1 1/8" ■ Kit contains: Eight black screws and anchors

#50-630 ... \$1³⁵_(1-9 kits) ... \$1¹¹_(10-24 kits)



Grooved Cabinet Corner Pieces

- Specially designed for cabinet stacking ■ Each corner is deeply grooved to interlock when cabinets are stacked ■ Made of rugged black plastic
- Screws not included ■ Four per package

#50-500 ... \$1⁸⁹_(1-9 pkgs.) ... \$1⁵⁵_(10-24 pkgs.)

Cabinet Corner Pieces

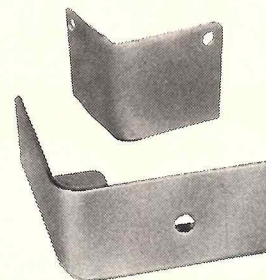
- Protect the corners of your cabinets with these metal corner pieces
- Chrome finish ■ Screws not included
- Four per package

1 1/2" (W) x 1 1/2" (H) x 1 1/2" (D)

#50-580 ... \$2⁵⁴_(1-9 pkgs.) ... \$2⁰⁹_(10-24 pkgs.)

1 1/4" (W) x 1 1/4" (H) x 3/4" (D)

#50-585 ... \$2⁰⁸_(1-9 pkgs.) ... \$1⁷¹_(10-24 pkgs.)



SEE PAGE 48 FOR SCREWS, BOLTS AND OTHER HARDWARE

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SPEAKER ACCESSORIES

L-Pads

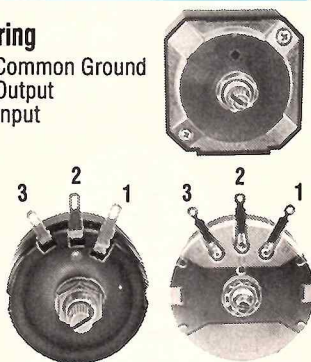
VIOLET L-Pads

- Original equipment in many high end speaker systems ■ High quality L-pads
- Available in 15W, 50W and 100W
- 3/8" shaft ■ Mono ■ Made in Japan

Order #	Power Rating	Price		
		(1-9)	(10-24)	(25-up)
50-665	15W	\$2.85	\$2.34	\$1.96
50-670	50W	5.50	4.75	3.95
50-675	100W	7.95	6.95	6.00

Wiring

1. Common Ground
2. Output
3. Input



15 Watt L-Pads

- Medium duty L-pad ■ Most common size
- 8ohm ■ Hardware supplied ■ 3/8" shaft

Order #	Type	Price	
		(1-9)	(10-24)
50-090	Mono	\$2.25	\$1.85
50-275	Stereo	4.44	3.64

50 Watt L-Pads

- Heavy duty L-pad ■ 8ohm
- Hardware supplied ■ 3/8" shaft

Order #	Type	Price	
		(1-9)	(10-24)
50-475	Mono (16ohm)	\$5.35	\$4.49
50-080	Mono	5.45	4.57
50-280	Stereo	10.30	8.86

100 Watt L-Pads

- Heavy duty L-pad ■ 8ohm
- Hardware supplied ■ 3/8" shaft

Order #	Type	Price	
		(1-9)	(10-24)
50-070	Mono	\$6.08	\$5.11
50-285	Stereo	11.75	10.11

Wall Plate

- Stainless steel wall plate ■ For use with L-pad ■ Complete with black knob

#50-380	\$2 ²⁴ ₍₁₋₉₎	\$1 ⁸⁵ ₍₁₀₋₂₄₎
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L-Pad Housings

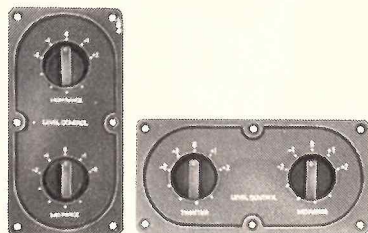
Dual L-Pad Housings

- Black plastic housing for tweeter and midrange L-pads ■ Flush mount
- Knobs included ■ Dimensions: 5 3/8" x 2 9/16" ■ Available in either vertical or horizontal

#50-425 Vertical

#50-430 Horizontal

\$1 ¹³ ₍₁₋₉₎	92 [¢] ₍₁₀₋₂₄₎
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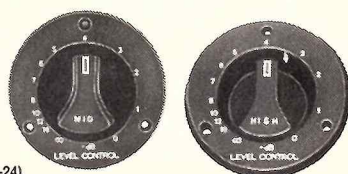
Single L-Pad Housings

- L-pad housing for most L-pads
- 3" O.D.

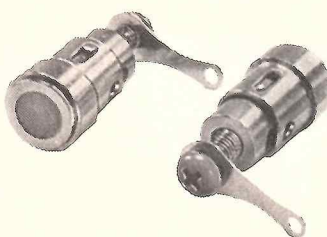
#50-100 High Range

#50-110 Midrange

88 [¢] ₍₁₋₉₎	72 [¢] ₍₁₀₋₂₄₎
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Speaker Terminals



Push Button Speaker Terminals

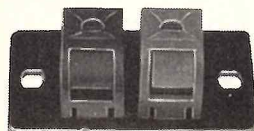
- Quality speaker terminals with many additional uses ■ Can be used as amplifier and power supply outputs
- Great for converting screw-type speaker terminals to push button
- Gold plated and color coded red and black ■ 1/2" (L) screw

#50-590	\$3 ⁸⁴ _(1-9 prs.)	\$3 ¹⁵ _(10-24 prs.)
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2 Terminal

- Mounts on speaker for fast and secure connection ■ Color coded red and black ■ Dimensions: 2 3/16" (W) x 1 5/16" (H)

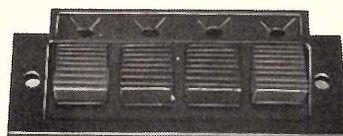
#50-010	84 [¢] ₍₁₋₉₎	68 [¢] ₍₁₀₋₂₄₎
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4 Terminal

- High quality plastic construction
- Push button and insert wire ■ Holds wire securely in place ■ Color coded red and black ■ Dimensions: 2 3/4" (W) x 1 5/16" (H)

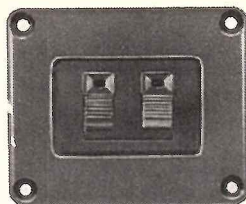
#50-020	\$1 ¹⁶ ₍₁₋₉₎	95 [¢] ₍₁₀₋₂₄₎
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Cup Type

- Fits all AMS enclosures ■ High quality construction ■ Color coded terminals ■ Recessed mount ■ Push button insert wire ■ Dimensions: 3 3/16" (W) x 2 3/8" (H)

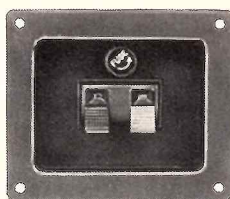
#50-015	89 [¢] ₍₁₋₉₎	73 [¢] ₍₁₀₋₂₄₎
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Cup Type with Fuse Holder

- High quality construction ■ Color coded terminals ■ Recessed mount
- Push button insert wire ■ Built-in fuse holder for AGC fuse (not included)
- Dimensions: 3 7/8" (W) x 3 7/16" (H)

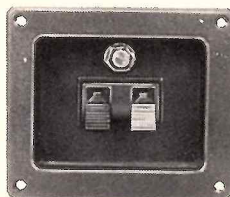
#50-455	\$1 ⁸⁹ ₍₁₋₉₎	\$1 ⁵⁵ ₍₁₀₋₂₄₎
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Cup Type with 1/4" Phone Jack

- High quality construction ■ Color coded terminals ■ Recessed mount
- Push button insert wire ■ Built-in phone jack for added hook-up versatility ■ Dimensions: 3 7/8" (W) x 3 7/16" (H)

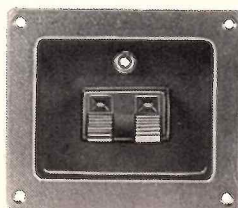
#50-460	\$1 ⁸⁹ ₍₁₋₉₎	\$1 ⁵⁵ ₍₁₀₋₂₄₎
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Cup Type with RCA Jack

- High quality construction ■ Color coded terminals ■ Recessed mount
- Push button insert wire ■ Built-in RCA jack for added hook-up versatility
- Dimensions: 3 7/8" (W) x 3 7/16" (H)

#50-645	\$2 ⁰⁰ ₍₁₋₉₎	\$1 ⁸⁵ ₍₁₀₋₂₄₎
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SPEAKER ACCESSORIES



PYLE Passive Radiators

Designed for use when woofers are used in smaller than optimum enclosures. Polyfoam surround and cone body for a smoother, deeper response. Radiator has rigid back support for stability and optimum weight ratio balancing.

8"

- 20Hz free air resonance
- 1½ cubic feet maximum cabinet size ■ 8⅛" outside diameter ■ 2⅛" overall depth

#50-440 \$11⁷⁵_(ea.)



10"

- 15Hz free air resonance
- 2½ cubic feet maximum cabinet size ■ 10⅛" outside diameter ■ 2¾" overall depth

#50-445 \$15³⁵_(ea.)



12"

- 10Hz free air resonance
- 3½ cubic feet maximum cabinet size ■ 12¼" outside diameter ■ 3½" overall depth

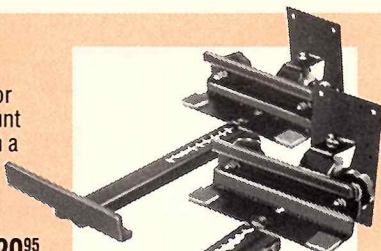
#50-450 \$20⁵⁰_(ea.)



Speaker Brackets

- All steel brackets designed for wall mounting speakers ■ Mount speakers up to 40 pounds with a depth between 6" and 10½"
- Adjustable up and down and side to side ■ Sold in pairs

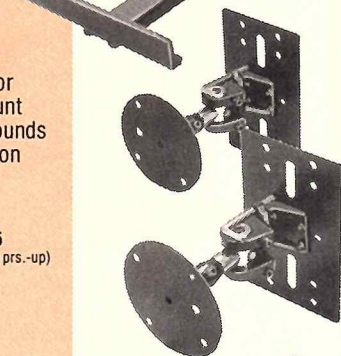
#50-625 \$29⁹⁵_(pr.)



Speaker Brackets

- All steel brackets designed for wall mounting speakers ■ Mount speakers weighing up to 40 pounds
- Fully adjustable to any position
- Sold in pairs

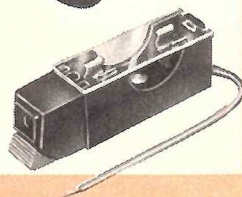
#50-620 \$34⁵⁰_(1-4 prs.) \$29⁹⁵_(5 prs.-up)



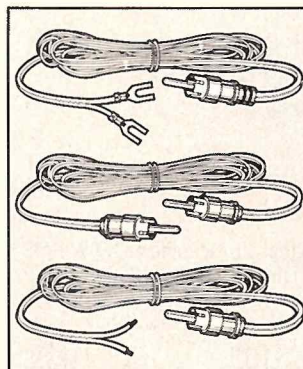
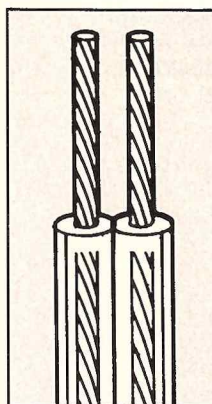
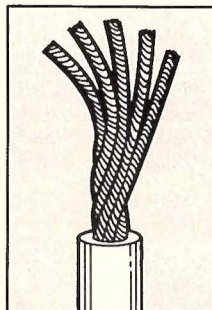
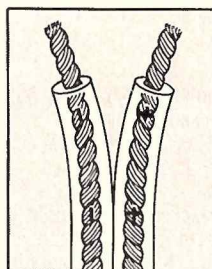
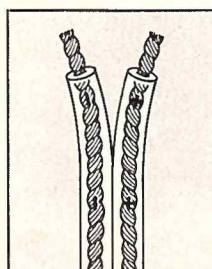
Speaker Fuse Holder

- Protects expensive speaker systems from damage by overpowering ■ Uses standard AGC fuse ■ Push button terminal for quick hook-up

#28-0310 \$1⁹⁸₍₁₋₉₎ \$1⁶²₍₁₀₋₂₄₎



Speaker Wire



"Sound King" Speaker Wire

- Finely stranded oxygen-free copper conductors cabled in a ropelay design to increase the conductive surface, reduce skin effect and insure maximum flexibility ■ Superflex extra soft, 60°C clear PVC insulation ■ Extremely low capacitance, resistance and inductance of these cables transfer music signals from amplifier to speakers with high clarity and definition ■ Surface printed for identification and polarity ■ Available in 30' and 50' spools

16 Gauge

- 105 strands of 36 gauge copper wire

Order #	Length	Price
24-1055	30'	\$10.85
24-1060	50'	16.60

12 Gauge

- 259 strands of 36 gauge copper wire

Order #	Length	Price
24-1065	30'	\$21.00
24-1070	50'	32.00

signet Music Line Wire



- Ideal for internal loudspeaker wiring from crossover to speakers ■ Oxygen-free copper ■ 14 gauge multi-strand ropelay construction ■ Available in four colors: Red, black, blue and white ■ Extr. soft, flexible PVC insulation ■ 50' length

Order #	Color	Price
24-1080	Red	\$14.95
24-1085	Black	14.95
24-1090	Blue	14.95
24-1095	White	14.95

Standard Speaker Wire

- 2 conductor clear insulation ■ Polarity identified by wire color ■ Made in USA

Order #	Gauge	Length	Price
24-310	24	50'	\$1.75
24-320	24	500'	13.25
24-330	24	1000'	25.55
24-340	18	50'	4.05
24-350	18	500'	30.65
24-360	18	1000'	53.75
24-370	16	50'	5.75
24-380	16	500'	54.60
24-390	16	1000'	76.95
24-110	12	50'	17.25
24-120	12	100'	32.60
24-130	12	500'	115.50

24' RCA Plug to Spade Lug

- Makes connecting speakers to amp a snap ■ RCA phono plug on one end, spade connectors on the other end

#24-290 ... \$1⁴⁰₍₁₋₉₎ ... \$1²⁰₍₁₀₋₄₉₎ ... \$1⁰⁵_(50-up)

10' RCA to RCA Plug

- Molded plugs

#24-300 ... 99¢₍₁₋₉₎ ... 75¢₍₁₀₋₄₉₎ ... 55¢_(50-up)

8' RCA to Tinned Wire

- RCA plug one end, stripped and tinned on the other end

#28-580 ... 80¢₍₁₋₉₎ ... 65¢₍₁₀₋₄₉₎ ... 45¢_(50-up)

IN CANADA CALL TOLL FREE

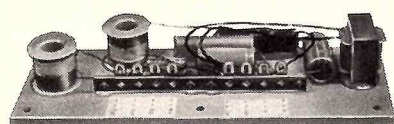
1-800-824-9491

CALL TOLL FREE 1-800-543-4330

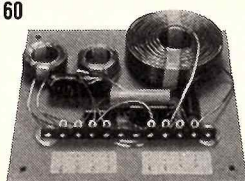


123

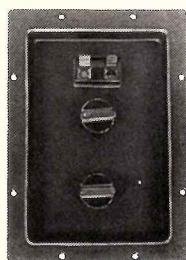
CROSSOVERS



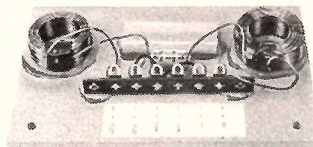
#50-650
#50-160



#50-660



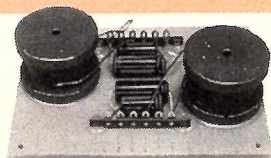
#50-785



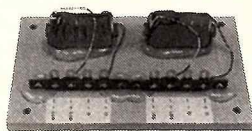
A M S Three-Way Crossovers

■ Made of only the highest quality components ■ The high frequency coupling capacitor is a high grade polymylar 250V capacity with excellent high frequency characteristics ■ Crossover frequencies are 800Hz and 4500Hz, at 12dB per octave ■ #50-650 is to be used with a 4ohm woofer and 8ohm midrange and tweeter ■ #50-785 has the same specifications as our #50-160 three-way crossover but comes mounted on a 5" x 7" speaker cup with gold plated binding post, Violet L-pads for midrange and tweeter, mounting screws, knobs and instructions ■ 3 7/8" x 5 7/8" opening is required in back of cabinet for mounting ■ Available in 150W and 300W power handling capacity

Order #	Output	(1-3)	Price (4-9)	(10-up)
50-650	4ohm/150W	\$27.25	\$24.40	\$22.40
50-160	8ohm/150W	27.08	24.37	22.42
50-785 NEW	8ohm/150W	47.95	42.95	39.50
50-660	8ohm/300W	32.50	29.95	29.95



#50-750
#50-755

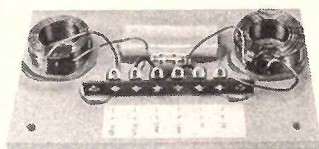


#50-480
#50-780

A M S Sub Woofer Crossovers

■ To be used with one dual voice coil sub woofer or two single voice coil woofers ■ Crossover frequency: Rolls off at 100Hz ■ Satellite output (100Hz-up) provided with 6dB slope per octave for 8ohm satellites

Order #	Output	Slope	(1-3)	Price (4-9)
50-780 NEW	4ohm/100W	6dB	\$15.80	\$13.90
50-480	4ohm/150W	12dB	40.47	36.42
50-750 NEW	4ohm/300W	12dB	45.41	40.87
50-755 NEW	8ohm/300W	12dB	54.15	48.74



A M S Two-Way Crossover

■ Designed for use with 4KHz tweeters (see page 126) ■ Rated at 150W RMS continuous ■ Utilizes a large wire air core inductor for fidelity ■ 250V polymylar capacitor insures excellent high frequency characteristics ■ Crossover frequency is at 4000Hz with a 12dB/octave slope ■ 8ohm

#50-605	\$17 ⁴⁵ ₍₁₋₃₎	\$15 ⁰¹ ₍₄₋₉₎	\$13 ²¹ _(10-up)
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A M S 150 Watt Two-Way Crossover

■ This unit is rated at 150W RMS continuous and uses large wire air core inductors for fidelity ■ The high frequency capacitor is a high grade polymylar 250V capacity with excellent high frequency characteristics ■ The crossover frequency is at 3000Hz with a 12dB/octave slope ■ The #50-655 is to be used with a 4ohm woofer and 8ohm tweeter ■ The #50-165 is to be used with 8ohm woofer and tweeter

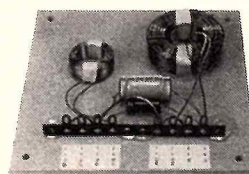
Order #	Output	(1-3)	Price (4-9)	(10-up)
50-655	4ohm	\$16.20	\$13.93	\$12.26
50-165	8ohm	17.45	15.01	13.21

150 Watt 6dB Crossovers



■ 8ohm ■ 6dB per octave slope ■ 150W RMS, 200W peak ■ Crossover frequency; (two-way) 3KHz, (three-way) 800Hz and 4.5KHz

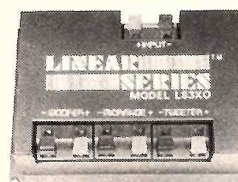
Order #	Type	(1-3)	Price (4-9)	(10-up)
50-790	Two-way	\$8.15	\$6.85	\$5.90
50-795	Three-way	14.95	13.05	11.75



MAGNADYNE High Power 100 Watt RMS Three-Way Crossover

■ Designed for three-way woofer, midrange and tweeter applications ■ Handles 100W of amplifier power ■ 12dB per octave crossover slope ■ For use with 4ohm or 8ohm speakers ■ Crossover points: 500Hz, 5.5KHz ■ Built-in push terminals for amplifier inputs and speaker outputs ■ Hardware and instructions included

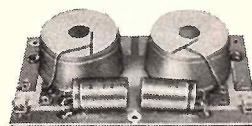
#50-250	\$25 ⁷⁶ ₍₁₋₃₎	\$23 ¹⁹ ₍₄₋₉₎
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PLYLE Sub Woofer Crossover

■ To be used with one dual voice coil sub woofer or two single voice coil woofers ■ Crossover frequency: Rolls off at 100Hz at 12dB per octave ■ 4ohm ■ 150W RMS continuous; 220W peak ■ Dimensions: 4" (W) x 7" (L) x 1 3/8" (D)

#50-220	\$49 ¹³ ₍₁₋₃₎	\$44 ²² ₍₄₋₉₎	\$40 ⁶⁸ _(10-up)
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ACOUSTICIAN Two-Way Dividing Network

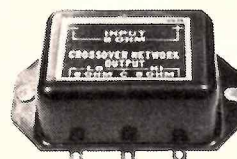
■ Heavy-duty die cast construction ■ High frequency attenuator 0/4/8/12dB switchable ■ Crossover frequency: 800Hz ■ Power handling: 150W ■ Dimensions: 4" (W) x 8" (H) x 1 3/4" (D)

#50-600	\$34 ²⁰ ₍₁₋₃₎	\$30 ⁷⁸ ₍₄₋₉₎
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Two-Way Crossover Network

■ 25W RMS ■ 40W program ■ Crossover frequency 3700Hz ■ Heavy duty housing ■ 12dB crossover slope ■ 8ohm

#50-050	\$4 ⁴⁴ ₍₁₋₉₎	\$3 ⁶⁴ ₍₁₀₋₂₄₎
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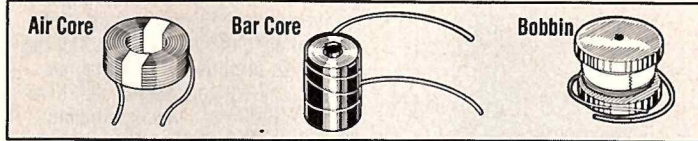


**MCM carries
the name brands
you trust**



AMS Crossover Inductors

All inductors are not the same! AMS crossover inductors are made with large gauge wire for low resistance and efficient power transfer. Made in USA.



Air Core Inductors

Order #	Wire Gauge	Inductance	Power Rating	Diameter	(1-9)	Price (10-24)
50-300	21	.1mH	100W	1.25"	\$1.32	\$1.08
50-305	21	.15mH	100W	1.25"	1.32	1.08
50-310	21	.2mH	100W	1.312"	1.51	1.27
50-315	21	.25mH	100W	1.312"	1.50	1.23
50-320	21	.3mH	100W	1.375"	1.76	1.48
50-325	21	.35mH	100W	1.375"	1.87	1.57
50-330	20	.4mH	150W	1.5"	2.20	1.85
50-335	20	.45mH	150W	1.5"	2.28	1.92
50-340	20	.5mH	150W	1.5"	2.67	2.24
50-345	20	.6mH	150W	1.625"	2.86	2.40
50-350	18	.7mH	200W	1.875"	3.57	2.93
50-355	18	.8mH	200W	2.00"	3.93	3.30
50-360	18	.9mH	200W	2.00"	4.17	3.42
50-720	18	1mH	200W	2.125"	4.92	4.13
50-725	18	1.5mH	200W	2.375"	5.94	4.99
50-730	18	2mH	200W	2.5"	6.79	5.71
50-365	16	1mH	300W	2.5"	6.88	5.91
50-370	16	1.5mH	300W	2.5"	8.40	7.22
50-375	16	2mH	300W	2.75"	7.92	6.97

Bar Core Inductors

Order #	Wire Gauge	Inductance	Power Rating	(1-9)	Price (10-24)
50-385	18	3mH	150W	\$6.25	\$5.38
50-390	18	4mH	150W	7.21	6.05
50-395	18	5mH	150W	7.86	6.61
50-400	18	6mH	150W	7.34	6.46
50-405	18	7mH	150W	8.56	7.53
50-410	18	8mH	150W	10.10	8.69
50-415	18	9mH	150W	10.18	8.96
50-420	18	10mH	150W	10.90	9.59
50-745 NEW	18	12mH	150W	14.95	12.88

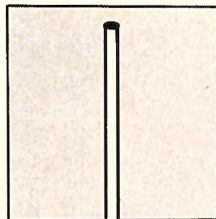
Bobbin Inductors

Order #	Wire Gauge	Inductance	Power Rating	Diameter	(1-9)	Price (10-24)
50-680	18	3mH	300W	2"	\$8.50	\$7.85
50-685	18	4mH	300W	2"	8.95	7.89
50-690	18	5mH	300W	2"	10.00	8.62
50-695	18	6mH	300W	2"	10.70	9.20
50-700	18	7mH	300W	2"	11.25	9.65
50-705	18	8mH	300W	2.5"	15.20	13.05
50-710	18	9mH	300W	2.5"	15.70	13.50
50-715	18	10mH	300W	2.5"	16.25	13.95
50-735 NEW	18	12mH	300W	3"	14.50	12.68
50-740 NEW	18	18mH	300W	3"	19.00	16.79

Enamel Magnet Wire

■ Used for making custom coils, transformers, etc. ■ Copper wire with enamel insulation ■ Temperature range: -30° to 80°C

Order #	Gauge	Approximate Length	Price
24-825	30	770'	\$5.25
24-828	28	500'	4.60
24-830	26	300'	4.95
24-833	24	200'	4.40
24-835	22	125'	4.45
24-838	20	75'	4.70
24-840	18	50'	4.75



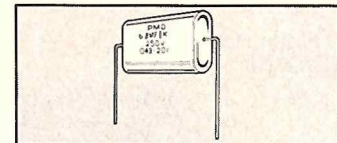
Crossover Capacitors

Non-Polarized Capacitors ■ For crossover networks ■ Axial type



Order #	Voltage	µF	(1-9)	Price (10-up)
31-580	50	.47	\$.65	\$.60
31-590	50	1	.65	.60
31-600	50	2.2	.65	.60
31-610	50	3.3	.65	.60
31-2025	50	4	.65	.60
31-620	50	4.7	.65	.60
31-2030	50	6.8	.65	.60
31-630	50	10	.85	.80
31-2035	50	14	.85	.80
31-640	50	22	.85	.80
31-650	50	33	.85	.80
31-660	50	47	.85	.80
31-2040	50	100	1.70	1.50

Order #	Voltage	µF	(1-9)	Price (10-up)
31-2045	50	200	\$2.60	\$2.30
31-1290	100	.47	1.00	.95
31-1295	100	1	1.00	.95
31-1300	100	2.2	1.00	.95
31-1305	100	3.3	1.00	.95
31-2050	100	4	1.00	.95
31-1310	100	4.7	1.00	.95
31-2055	100	6.8	1.00	.95
31-1315	100	10	1.05	.99
31-2060	100	14	1.05	.99
31-1320	100	22	1.05	.99
31-2065	100	33	2.75	2.60
31-2070	100	47	3.40	3.25



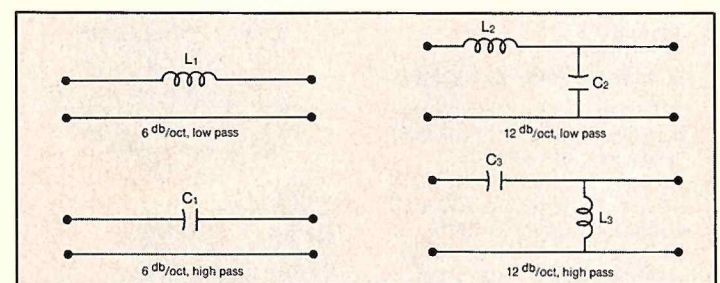
Mylar Capacitors

■ Ideal for use in custom crossover networks ■ Axial type

Order #	Voltage	µF	(1-9)	Price (10-up)
31-0595 NEW	100	.01	\$.10	\$.09
31-1700	150	1	.67	.62
31-1705	200	1.5	.83	.77
31-0280	250	.5	.70	.66
31-0285	250	1	.85	.80
31-0290	250	1.5	1.00	.92
31-0295	250	2.2	1.25	1.19
31-0300	250	2.7	1.25	1.20
31-0305	250	3	1.62	1.50
31-1710	250	3.3	2.05	1.95
31-0310	250	4	2.15	2.00

Order #	Voltage	µF	(1-9)	Price (10-up)
31-1715	250	4.7	\$2.60	\$2.50
31-0315	250	5	1.99	1.95
31-0320	250	5.6	2.15	2.05
31-1720	250	6.8	3.10	2.95
31-0325	250	8	3.09	2.87
31-0330	250	10	3.73	3.46
31-0335	250	12	4.62	4.29
31-0340	250	16	6.10	5.85
31-0590 NEW	600	.022	.45	.41
31-0585 NEW	600	.047	.54	.48
31-0580 NEW	600	.1	.78	.69

Crossover Chart



For 8ohm

Hz	L ₁ -mH	C ₁ -µF	L ₂ -mH	C ₂ -µF	L ₃ -mH	C ₃ -µF
100	10.0	200	18.0	100	9.0	100
250	4.0	100	7.0	47	4.0	47
500	2.0	47	3.0	33	3.0	33
750	1.5	33	2.0	22	2.0	22
1000	1.0	22	1.5	14	1.0	14
2000	0.5	10	0.8	10	0.5	10
3000	0.35	6.8	0.5	6.8	0.35	6.8
4000	0.25	4.7	0.4	4.7	0.25	4.7
5000	0.20	4.0	0.3	3.3	0.2	3.3

Note:

- 1) A band pass circuit is assembled by placing a low pass circuit in series with a high pass circuit.
- 2) If your application is for 4ohm instead of 8ohm, multiply inductance values by 0.5 and capacitor values by 2.0.



TWEETERS

PYLE

Rectangular Dome Tweeter

■ Dome tweeter design for optimum dispersion of high frequencies ■ Hi-temp polythermal voice coil ■ Ferrofluid cooled for increased power handling ■ 6dB crossover included ■ 1 1/4" mounting depth; well suited for car stereo applications ■ 8ohm ■ 1" voice coil ■ 8 oz. magnet ■ Frequency response: 4KHz-20KHz ■ SPL 1W/1 meter: 94dB ■ Power handling; RMS: 40W; Maximum: 80W ■ Made in USA ■ 3" mounting hole ■ Dimensions: 3 1/8" (W) x 4 1/2" (L) ■ Display packaged in pairs

#53-205... \$42⁵⁰ (1-3 prs.)... \$39⁹⁵ (4 prs.-up)

PYLE

1" Compression Dome Tweeters

■ 1" compression dome high frequency driver for unparalleled natural reproduction of the critical high frequencies ■ Excellent for use with home or car stereo systems ■ 8ohm ■ 1" voice coil ■ 8 oz. magnet ■ Frequency response: 4KHz-20KHz ■ SPL: 94dB ■ Power handling; RMS: 40W; Maximum: 80W ■ Ferrofluid cooling ■ 3 3/4" diameter ■ 2 7/8" hole to hole ■ Made in USA ■ Each pair display packaged

#53-150... \$35⁰⁰ (1-3 prs.)... \$32⁴⁰ (4 prs.-up)

PYLE

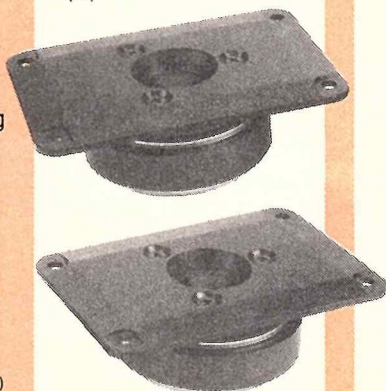
Mini Dome Satellite Tweeters

■ Hi-temp polythermal voice coil ■ Ferrofluid cooled ■ Swivel base design ■ Comes with 6dB crossover ■ Perfect for car stereo ■ 8ohm ■ 30W RMS ■ 60W peak ■ Frequency response: 4KHz-20KHz ■ SPL 1W/1 meter: 90dB ■ 3/8" voice coil diameter ■ 1 oz. magnet ■ Dimensions: 2 3/8" (W) x 2 3/8" (H) x 1 1/2" (D) ■ Each pair display packaged

#53-170... \$32⁹⁰ (1-3 prs.)... \$30²⁵ (4 prs.-up)

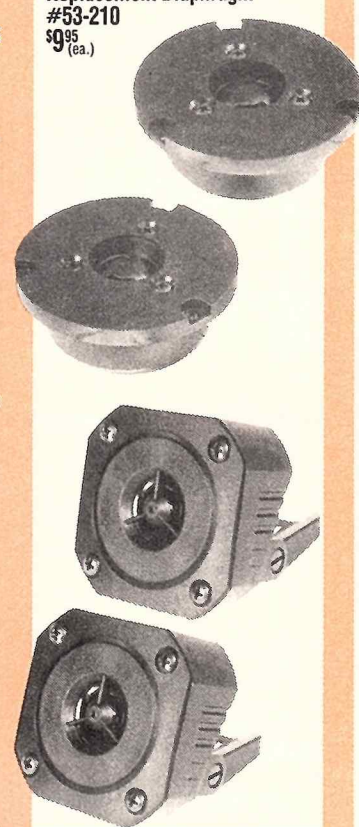
Replacement Diaphragm

#53-210
\$9⁹⁵ (ea.)



Replacement Diaphragm

#53-210
\$9⁹⁵ (ea.)



PIONEER®

Soft Dome Tweeter

■ An attractive tweeter that can be paired with our #54-165 midrange to create a matched set (see page 128) ■ Ferrofluid enhanced ■ 3/4" soft dome ■ 4.73 oz. strontium ferrite magnet ■ 8ohm ■ Frequency response: 2KHz-20KHz ■ RMS/peak power handling: 50/100W ■ Sensitivity 1W/1 meter: 90dB ■ 2 9/16" x 2 9/16" mounting dimensions ■ Pioneer #FADD64

#53-240... \$11⁹⁵ (1-3)..... \$10⁵⁰ (4-up)

PIONEER®

3/4" Cloth Dome Tweeter

■ 3/4" cloth dome ■ 4.7 oz. strontium magnet ■ 8ohm ■ Frequency response: 2.4KHz-30KHz ■ 35W RMS power handling ■ Sensitivity 1W/1 meter: 91dB ■ 2 9/16" x 2 3/16" mounting dimensions

#53-215... \$11⁵⁰ (1-3)..... \$10⁵⁰ (4-up)

4" Mount Dome Tweeter

■ 6 1/2 oz. ceramic magnet ■ 50W maximum input ■ 4KHz-20KHz response ■ 8ohm ■ 2 5/8" x 2 5/8" mounting dimensions ■ Display packaged

#53-030... \$6⁹⁵ (1-3)..... \$6⁵⁰ (4-up)

Popular Replacement Hi-Fi Tweeter

■ Phenolic ring design used in many domestic speaker systems ■ Trim profile for easy mounting in tight spaces ■ 4 1/4" diameter ■ 3 oz. magnet ■ 10W power handling capacity ■ 2KHz-20KHz ■ 8ohm ■ 2 5/8" x 2 5/8" mounting dimensions

#53-020... \$4³⁰ (1-3)..... \$3⁸⁵ (4-up)

Dyna-Flat Ribbon Tweeter

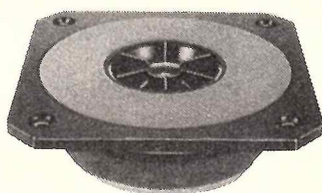
■ Strontium ferrite magnet for higher efficiency ■ Super light (76.5mg) diaphragm for extremely low distortion ■ 50W power handling capacity ■ 3KHz-45KHz or above frequency response ■ Extremely clean transient response ■ 8ohm ■ 4 3/4" x 4" ■ 3 1/8" x 3 1/8" mounting dimensions

#53-060... \$18⁴⁰ (1-3)..... \$16⁹⁵ (4-up)

PYLE Tweeter Protector

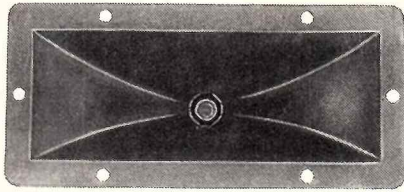
■ Poly switch designed to protect tweeters from power overloads ■ Maximum electrical ratings: 40V at 10A ■ Normal resistance: .23ohm; post-trip resistance: .43ohm ■ Used in series with dynamic tweeters ■ Note: Not for use with piezo tweeters

#50-635... \$1⁷⁵ (1-4)..... \$1⁵⁰ (5-up)





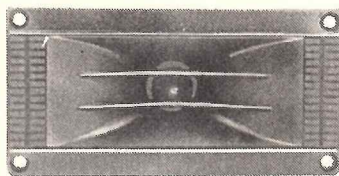
Replacement
Diaphragm
#53-200
\$9⁷⁵
(ea.)



PYLE 2" x 6" Horn Tweeter

■ Geometrically correct phasing plug forms a coordinated wave front for an acoustically accurate dispersion pattern and greater efficiency ■ Hi-temp polythermal voice coil improves efficiency and power handling capability ■ Ferrofluid cooling reduces burnouts and voice coil rub ■ 6dB crossover included ■ 8ohm ■ 1" voice coil ■ 8 oz. magnet ■ Frequency response: 4KHz-20KHz ■ SPL 1W/1 meter: 101dB ■ Power handling; RMS: 40W; maximum: 80W ■ Made in USA ■ Display packaged

#53-195.....\$27⁹⁵
(1-3).....\$25³⁰
(4-up)



MG Dynamic Horn Tweeter

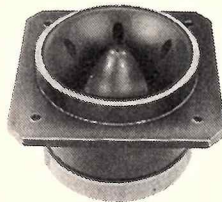
■ Wide dispersion pattern ■ Used in high power systems ■ Power handling: 70W peak ■ Frequency response: 3KHz-19KHz ■ 8ohm ■ 5 oz. magnet ■ Sensitivity SPL 1W/1 meter: 100dB ■ Dimensions: 5¼"(W) x 2½"(H) x 2½"(D)

#53-265.....\$14⁹⁵
(1-3).....\$12⁵⁰
(4-up)

MG 3½" Super Bullet Tweeter

■ Bullet design for controlled dispersion pattern ■ For use in high power stereo applications ■ 150W nominal power handling (capacitor included) ■ 35W nominal power handling (without capacitor) ■ 8ohm ■ 1.3KHz-20KHz frequency response ■ Sensitivity SPL 1W/1 meter: 103dB ■ 2" mounting depth ■ 3¼" x 3¼" mounting dimensions

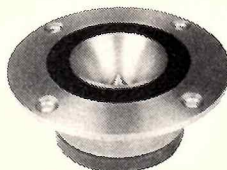
#53-220.....\$48⁹⁵
(1-3).....\$46⁵⁰
(4-up)



3½" Horn Tweeter

■ Brushed aluminum horn with 3 oz. magnet ■ 1" voice coil ■ 8ohm ■ Frequency response: 1.5KHz-18KHz ■ 25W RMS, 50W peak ■ Sensitivity 1W/1 meter: 95dB ■ 2½" x 2½" mounting dimensions

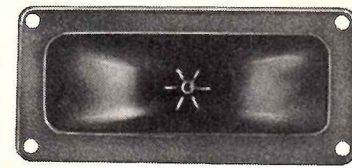
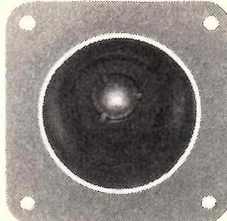
#53-230.....\$9⁹⁵
(1-3).....\$9⁵⁰
(4-up)



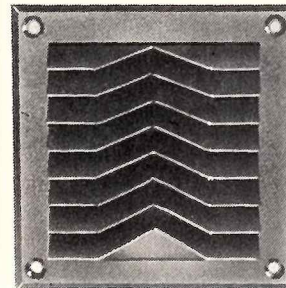
PIONEER® 3½" Horn Tweeter

■ High quality exponential horn design ■ Mylar dome ■ 2.93 oz. barium ferrite magnet ■ Net weight 10.93 oz. ■ 8ohm ■ Frequency response: 2KHz-20KHz ■ 35W RMS ■ Sensitivity 1W/½ meter: 106dB ■ 2¾" x 2¾" mounting dimensions

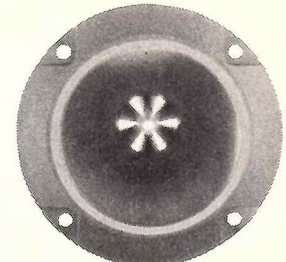
#53-175.....\$8⁷⁵
(1-3).....\$8²⁰
(4-up)



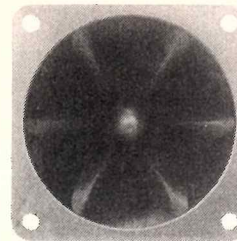
#53-080



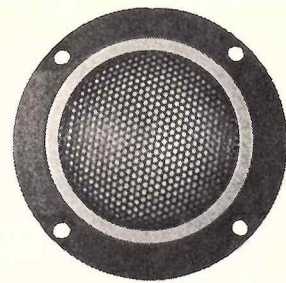
#53-225



#53-100



#53-070



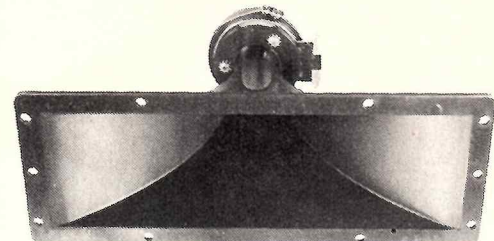
#53-110

MOTOROLA Piezo Tweeters

■ Excellent transient response ■ Low harmonic distortion ■ No crossover needed ■ 3KHz-30KHz response ■ High impact, high temperature plastic ■ High impedance; over 1Kohm at 1KHz and still above 20ohm at 40KHz ■ Piezo diaphragm ■ Power handling 17-37V

Order #	Type	Mfg. #	Mounting Dimensions	Price (1-3)	Price (4-up)
53-080	Horn	KSN1016A	2" x 5"	\$8.90	\$8.40
53-225	Super Horn				
	W/Acoustic Lens	KSN1130	4" x 4"	9.50	8.95
53-070	Super Horn	KSN1005A	2¾" x 2¾"	5.90	—
53-100	Exponential Horn	KSN1038A	3¾"	8.35	7.85
53-110	Direct Radiating	KSN1039A	3¾"	5.80	5.30

Replacement
Diaphragm
#54-047
\$10¹⁵
(ea.)



PYLE Horn Mid/Tweeter

■ 3" x 9" horn ■ 40W RMS ■ 2KHz-18KHz response ■ 8ohm ■ 10 oz. magnet ■ 102dB SPL ■ Ferrofluid for maximum heat dissipation ■ Made in USA ■ Display packaged

#54-040.....\$23³⁰
(1-3).....\$21⁸⁰
(4-up)

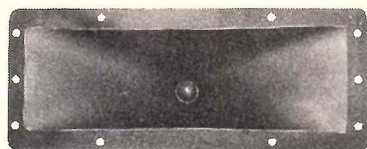
IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330



MIDRANGES

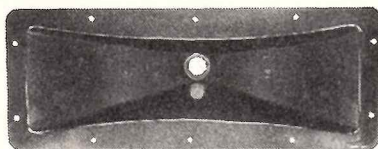
Replacement
Diaphragm
#54-185
\$8⁹⁵
(ea.)



MG Midrange Horn

■ 4" x 10 1/2" die-cast aluminum midrange horn ■ 35W RMS/50W maximum
■ 500Hz-11KHz response ■ 8ohm ■ 10 oz. magnet ■ Black crinkle finish

#54-145.....\$24⁹⁵.....\$23⁵⁰
(1-3).....(4-up)



MG Diffraction Horns

■ Standard throat size: 1 3/8" x 18 threads per inch ■ To be used with
compression horn driver (below)

Order #	Type	Dimensions (W) x (H) x (D)	Price (ea.) (2-up)
54-200 NEW	Plastic	15" x 4 1/2" x 8 1/2"	\$18.95 \$17.95
54-150	Fiberglass	17" x 6" x 9 1/2"	34.95 32.50

MG Midrange Driver

■ 8ohm ■ 80W RMS ■ Frequency
response: 800Hz-12KHz ■ Sensitivity:
104dB ■ 20 oz. magnet weight ■ 1 3/8" x
18 threads per inch



#54-205.....\$29⁹⁵
(ea.)

Replacement
Diaphragm
#54-210
\$10⁵⁰
(ea.)

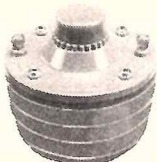


TENMA™

Compression Horn Drivers

■ 16ohm ■ 100Hz-8KHz ■ Heavy cast
aluminum housing ■ Throat size: 1 3/8" x 18
threads per inch

Order #	Watts RMS/peak	Weight	Price
54-050	40/60	4 lbs.	\$23.80
54-060	60/100	5 lbs.	29.95
54-055	Replacement Diaphragm for #54-060		4.50



PIONEER®

1 1/2" Soft Dome Midrange

■ An attractive midrange that can be paired
with our #53-240 tweeter to create a
matched set (see page 126) ■ Ferrofluid-
cooled and closed backed for optimum
performance ■ 7.2 oz. ferrite magnet
■ Voice coil: 1 1/2" ■ 6.5ohm ■ Power
handling: RMS/peak 50/100W ■ Sensitivity
SPL 1W/1 meter: 90dB ■ Pioneer #FADF87
■ Frequency response: 1.2KHz-15KHz

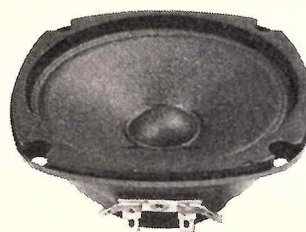
#54-165.....\$15⁹⁵.....\$14⁹⁵
(1-3).....(4-up)

PIONEER®

4 1/2" Deep Back Midrange

■ Prostyle design ■ 9.3 oz. ferrite magnet
■ Voice coil: 1" ■ 8ohm ■ Power rating:
30W RMS ■ Frequency response: 320Hz/
6KHz ■ Sensitivity SPL 1W/1 meter: 100dB
■ Pioneer #B11EC80-02F

#54-120.....\$12⁶⁵.....\$11⁶⁰
(1-3).....(4-up)



PIONEER®

4 1/2" Sealed Back Midrange

■ Sealed back to eliminate speaker enclosure
back pressure ■ 3 oz. ferrite magnet ■ Voice
coil: 3/4" ■ 8ohm ■ Power rating: 15W RMS
■ Frequency response: 700Hz-6KHz
■ Sensitivity SPL 1W/1 meter: 99dB
■ Pioneer #A11DP60-02F

#54-010.....\$6⁹⁰.....\$6⁴⁰
(1-3).....(4-up)

PIONEER®

5" Sealed Back Midrange

■ Sealed back design prevents
intermodulation distortion ■ Ferrofluid
enhanced magnet increases power handling
■ 14 oz. magnet weight ■ Voice coil: 1"
■ 8ohm ■ Power handling: RMS/peak 50/
100W ■ Frequency response: 500Hz-14KHz
■ Sensitivity SPL 1W/1 meter: 90dB

#54-170.....\$14⁹⁵.....\$13⁵⁰
(1-3).....(4-up)

PYLE 5" Midrange

■ Closed back design ■ 16 oz. magnet
weight ■ Voice coil: 1" ■ 8ohm ■ Power
handling: RMS/peak 50/100W ■ Frequency
response: 500Hz-10KHz ■ Sensitivity SPL
1W/1 meter: 94dB ■ Made in USA ■ Display
packaged

Paper

#54-100.....\$21⁸⁰.....\$20³⁰
(1-3).....(4-up)

Polypropylene

#54-135.....\$25¹⁰.....\$22⁶⁰
(1-3).....(4-up)

MG

5" Midrange with Grill

■ Replacement speaker for MTX Road
Thunder speaker systems #MTX55HB,
#MTX455B and Pioneer #FD10DP61-56F-Q
■ Sealed back design ■ 10 oz. magnet weight
■ 8ohm ■ Frequency response: 800Hz-
10KHz ■ Power handling: RMS/peak 50/70W



#54-195.....\$7⁵⁰.....\$6⁸⁰
(1-3).....(4-up)

MG

5" Closed Back Midrange

■ Outstanding performance at an
economical price ■ 6.5 oz. magnet ■ Voice
coil: 3/4" ■ 8ohm ■ Power handling: RMS/
peak 20W/30W ■ Frequency response:
1KHz-10KHz ■ Sensitivity SPL 1W/1 meter:
91dB

#54-190.....\$4⁹⁵
(ea.)

MG

6" Polymer Dome Midrange

■ Closed back design ■ 11 oz. magnet
weight ■ Voice coil: 3" ■ 8ohm ■ Power
handling: 100W nominal ■ Frequency
response: 500Hz-10KHz ■ Sensitivity SPL
1W/1 meter: 94dB

#54-140.....\$24²⁵.....\$22⁷⁵
(1-3).....(4-up)

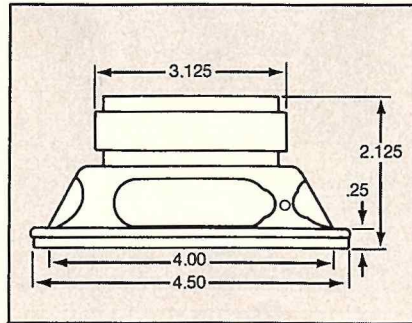


PIONEER®

4½" Extended Range Speaker

■ Magnet weight: 9.3 oz. ■ Structure weight: 1.5 lbs.
 ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak
 20W/30W ■ Free air resonance: 68Hz ■ Frequency
 response: 68Hz-15KHz ■ Sensitivity SPL 1W/1 meter:
 96dB ■ Qts: .38 ■ Vas: .41 cu. ft. ■ Pioneer
 #A11EC80-02F

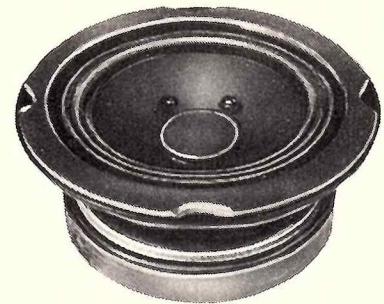
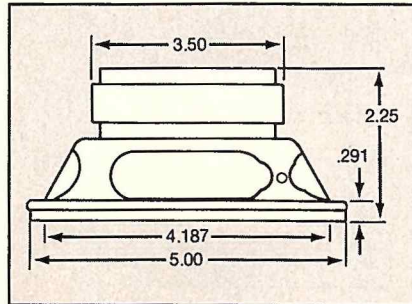
#51-075.....\$9⁹⁰₍₁₋₃₎.....\$9⁴⁰_(4-up)



PYLE 5" Stage Monitor

■ Replaces Bullfrog, Legend, Hot Spot and Bose-type
 stage monitors ■ Display packaged ■ Made in USA
 ■ Magnet weight: 16 oz. ■ Structure weight: 2.5 lbs.
 ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak
 50W/70W ■ Free air resonance: 85Hz ■ Frequency
 response: 70Hz-15KHz ■ Sensitivity SPL 1W/1 meter:
 103dB ■ Qts: .46 ■ Vas: .1 cu. ft. ■ Manufacturer
 #MH516

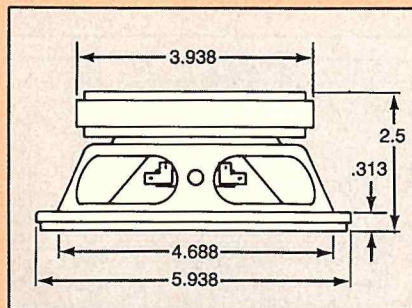
#55-320.....\$24⁸⁰₍₁₋₃₎.....\$23³⁰_(4-up)



PYLE 5¼" Poly Woofer

■ Designed for use in car stereo systems ■ Long
 excursion, foam surround and black poly cone
 ■ Made in USA ■ Magnet weight: 16 oz. ■ Structure
 weight: 2.5 lbs. ■ Voice coil: 1" Kapton ■ 4ohm
 ■ Power handling: RMS/peak 50W/70W ■ Free air
 resonance: 60Hz ■ Frequency response: 50Hz-8KHz
 ■ Sensitivity SPL 1W/1 meter: 92dB ■ Qts: .39 ■ Vas:
 .19 cu. ft.

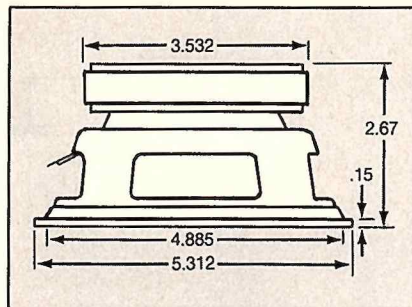
#55-670.....\$24⁸⁰_(ea.)



5¼" Poly Woofer

■ Magnet weight: 12 oz. ■ Structure weight: 2 lbs.
 ■ Voice coil: 1" ■ 6ohm ■ Power handling: RMS/peak
 35W/50W ■ Free air resonance: 65Hz ■ Frequency
 response: 60Hz-10KHz ■ Sensitivity SPL 1W/1 meter:
 87dB ■ Qts: .366 ■ Vas: .269 cu. ft.

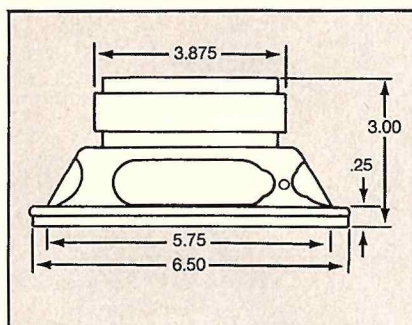
#55-435.....\$13⁹⁰₍₁₋₃₎.....\$12⁸⁵_(4-up)



6½" Heavy Duty Polypropylene Woofer

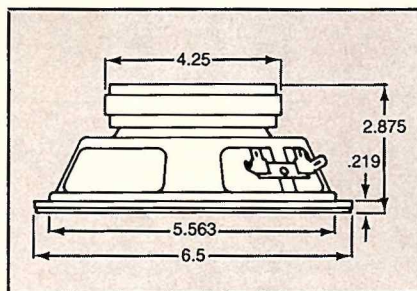
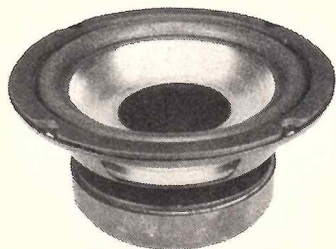
■ Magnet weight: 20 oz. ■ Structure weight: 3 lbs.
 ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak
 35W/50W ■ Free air resonance: 30Hz ■ Frequency
 response: 35Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter:
 90dB ■ Qts: .727 ■ Vas: .6 cu. ft.

#55-057.....\$18⁴⁰₍₁₋₃₎.....\$16⁸⁰_(4-up)





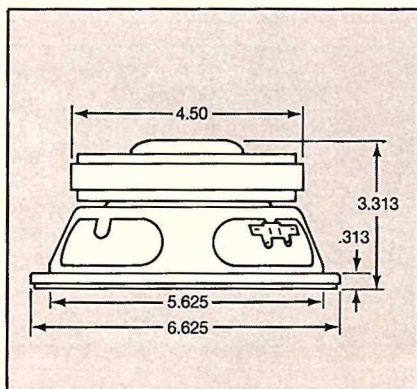
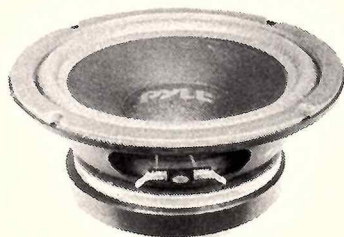
WOOFERS



PIONEER® 6 1/2" Poly Woofer

■ Foam surround ■ Translucent poly cone ■ Magnet weight: 20 oz. ■ Structure weight: 3 lbs. ■ Voice coil: 1" ■ 6ohm nominal ■ Power handling: RMS/peak 60W/90W ■ Free air resonance: 55Hz ■ Frequency response: 55Hz-3KHz ■ Sensitivity SPL 1W/1 meter: 91dB ■ Qts: .63 ■ Vas: .57 cu. ft. ■ Pioneer #C16EU20-51D

#55-505 \$18²⁰₍₁₋₃₎ \$16⁶⁰_(4-up)

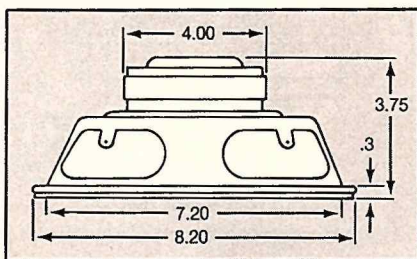


PYLE 6 1/2" 8ohm and 4ohm Woofers

■ Designed for use in car stereo systems ■ Long excursion, foam surround, and paper cone ■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs ■ Voice coil: 1 1/2" Kapton ■ Power handling: RMS/peak 60W/85W ■ Free air resonance 4ohm/8ohm: 50/67Hz ■ Frequency response: 40Hz-6.5KHz ■ Sensitivity SPL 1W/1 meter: 92dB ■ Qts: 4ohm/8ohm: .31/.29 ■ Vas. 4ohm/8ohm: .4/.4 cu. ft.

4ohm
#55-650

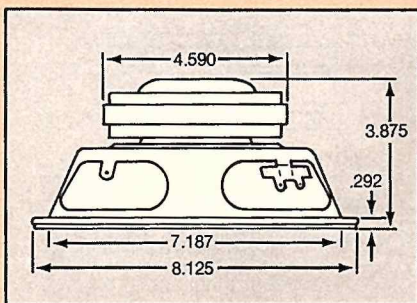
8ohm
#55-645 \$31⁹⁵₍₁₋₃₎ \$28²⁰_(4-up)



8" Polypropylene Woofer

■ Weather resistant cone ■ Magnet weight: 16 oz. ■ Structure weight: 3.5 lbs. ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak 25W/35W ■ Free air resonance: 36Hz ■ Frequency response: 36Hz-4KHz ■ Sensitivity SPL 1W/1 meter: 85dB ■ Qts: .724 ■ Vas: .2308 cu. ft.

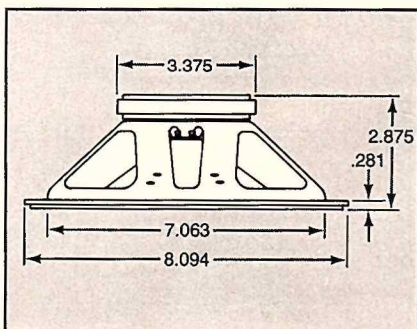
#55-082 \$20⁷⁵₍₁₋₃₎ \$19¹⁰_(4-up)



PYLE 8" Polypropylene Woofer

■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 70W/100W ■ Free air resonance: 40Hz ■ Frequency response: 30Hz-6KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .43 ■ Vas: 1.5 cu. ft.

#55-090 \$31⁵⁰₍₁₋₃₎ \$28⁹⁵_(4-up)



PYLE 8" Musical Instrument

■ Designed for use in musical instrument amplification systems ■ Plastiseal reinforced cone surround for added durability and smoother response ■ Made in USA ■ Display packaged ■ Magnet weight: 10 oz. ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak 75W/100W ■ Free air resonance: 85Hz ■ Frequency response: 70Hz-8KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .79 ■ Vas: .7 cu. ft.

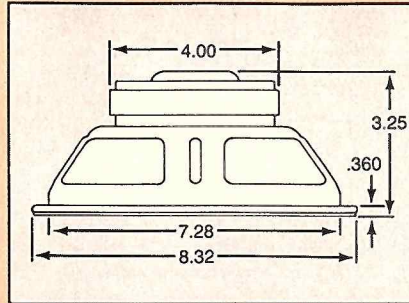
#55-685 \$24⁹⁵₍₁₋₃₎ \$21⁵⁰_(4-up)



8" Replacement Woofer

■ One of the best woofers available in this price range
 ■ Foam surround ■ Magnet weight: 20 oz. ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak 35W/50W ■ Free air resonance: 36Hz ■ Frequency response: 30Hz-4KHz ■ Sensitivity SPL 1W/1 meter: 91dB ■ Qts: .69 ■ Vas: .55 cu. ft.

#55-700 \$12⁹⁵₍₁₋₃₎ \$11⁹⁵_(4-up)



NEW

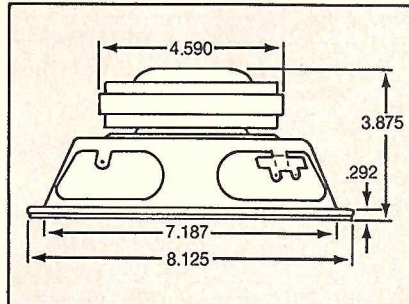


PYLE 8" Heavy Duty Woofer

■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ Power handling: RMS/peak 70W/100W ■ Free air resonance: 40Hz ■ Frequency response: 30Hz-6KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .48 ■ Vas: 1.1 cu. ft.

4ohm
 #55-465

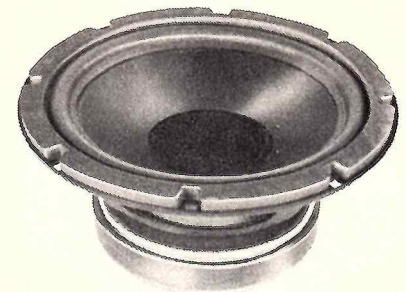
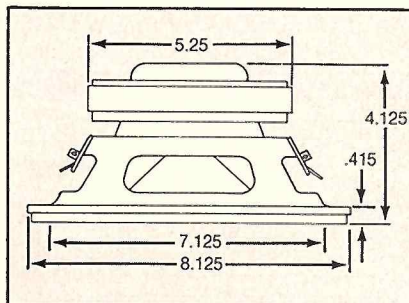
8ohm
 #55-080 \$30³⁵₍₁₋₃₎ \$27⁸⁵_(4-up)



PYLE 8" Poly Dual Voice Coil Sub Woofer

■ Four-layer Kapton voice coils ■ Great for car stereo applications ■ Display packaged ■ Made in USA ■ Magnet weight: 30 oz. ■ Structure weight: 6.5 lbs. ■ Voice coil: 1 1/2" dual voice coil ■ 4ohm each coil ■ Power handling: RMS/peak 75W/110W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 93dB ■ Qts: .44 ■ Vas: 1.0 cu. ft.

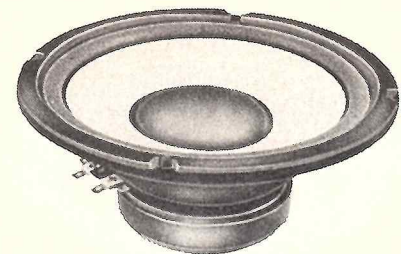
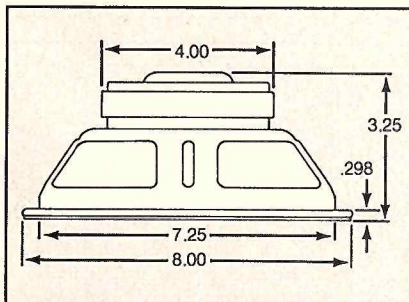
#55-420 \$42⁸⁰₍₁₋₃₎ \$40¹⁰_(4-up)



8" White Cone Hi-Fi Woofer

■ Great for an economical extension speaker system ■ Magnet weight: 16 oz. ■ Structure weight: 3.5 lbs. ■ Voice coil: 1" ■ 8ohm ■ Power handling: RMS/peak 35W/50W ■ Free air resonance: 40Hz ■ Frequency response: 35Hz-4.5KHz ■ Sensitivity SPL 1 W/1 meter: 89dB ■ Qts: .715 ■ Vas: .253 cu. ft.

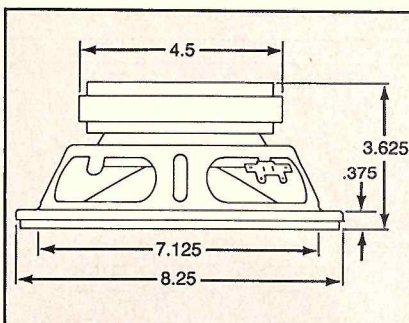
#55-070 \$13²⁰₍₁₋₃₎ \$12²⁰_(4-up)



PYLE 8" Poly White Cone Woofer

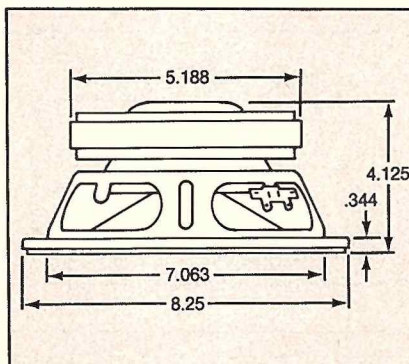
■ Rugged white cone with polyurethane foam surround ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 70W/100W ■ Free air resonance: 40Hz ■ Frequency response: 30Hz-6KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .3 ■ Vas: 1.3 cu. ft.

#55-495 \$23⁵⁰_(ea.)





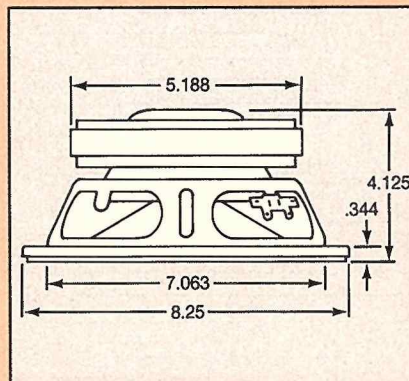
WOOFERS



PYLE 4ohm 8" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Ideal for car stereo applications ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ Power handling: RMS/peak 100W/140W ■ Free air resonance: 55Hz ■ Frequency response: 45Hz-5KHz ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .30 ■ Vas: .4 cu. ft.

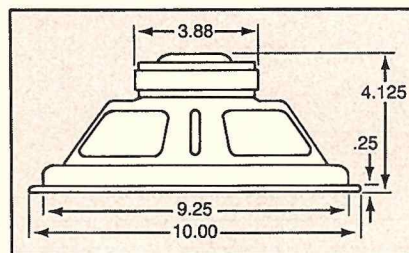
#55-605 \$54²⁰₍₁₋₃₎ \$48²⁰_(4-up)



PYLE 8ohm 8" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 100W/140W ■ Free air resonance: 50Hz ■ Frequency response: 40Hz-5.5KHz ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .40 ■ Vas: .5 cu. ft.

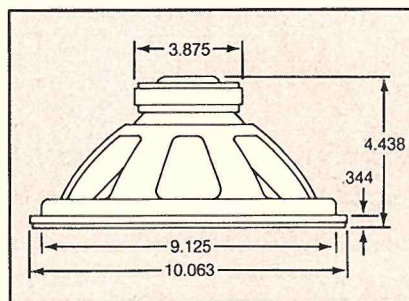
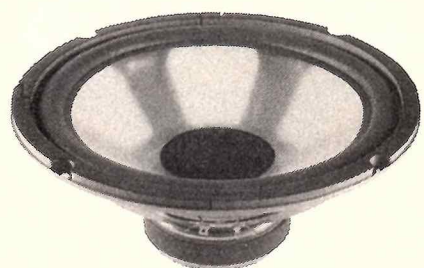
#55-625 \$54²⁰₍₁₋₃₎ \$50⁴⁵_(4-up)



10" Polypropylene Woofer

■ Foam gasket ■ Magnet weight: 18 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 60W/85W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-6KHz ■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .55 ■ Vas: 2.8 cu. ft.

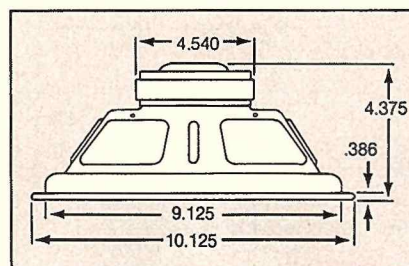
#55-410 \$18⁹⁵_(ea.)



PIONEER® 10" Polypropylene Woofer

■ Foam gasket ■ Magnet weight: 14 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 60W/100W ■ Free air resonance: 28Hz ■ Frequency response: 25Hz-2KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .38 ■ Vas: 1.82 cu. ft.

#55-675 \$19⁹⁵_(ea.)



PYLE 10" Polypropylene Woofer

■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 75W/105W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-5.5KHz ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .44 ■ Vas: 4.8 cu. ft.

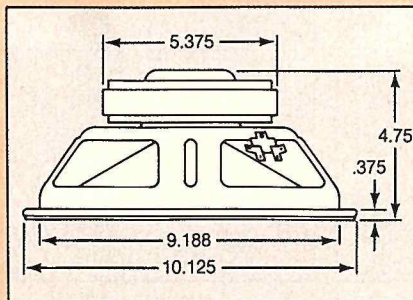
#55-120 \$37⁵⁰₍₁₋₃₎ \$35⁰⁰_(4-up)



PYLE 10" Poly White Cone Woofer

■ Rugged white cone with polyurethane foam surround ■ Made in USA ■ Magnet weight: 20 oz.
 ■ Structure weight: 4 1/2 lbs. ■ Voice coil: 1 1/2" ■ 8ohm
 ■ Power handling: RMS/peak 75W/110W ■ Free air resonance: 32Hz ■ Frequency response: 30Hz-5.5KHz
 ■ Sensitivity SPL 1W/1 meter: 95dB

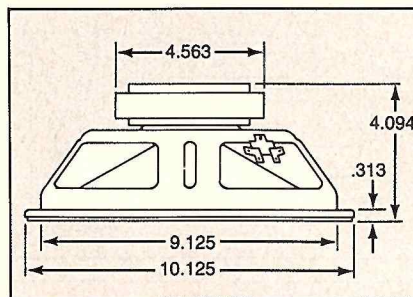
#55-490 \$31⁷⁵ (ea.)



PYLE 10" Musical Instrument

■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 85W/120W ■ Free air resonance: 80Hz
 ■ Frequency response: 65Hz-7KHz ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .91 ■ Vas: .9 cu. ft.

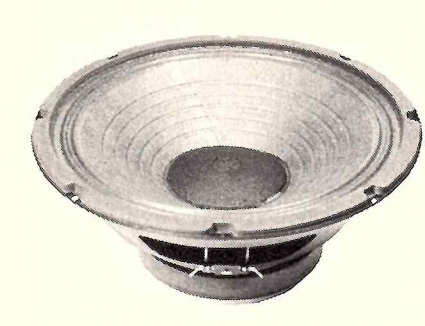
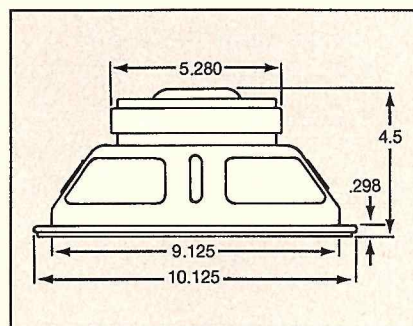
#55-690 \$38⁵⁵ (1-3) \$35⁹⁵ (4-up)



PYLE 10" Musical Instrument

■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm
 ■ Power handling: RMS/peak 100W/140W ■ Free air resonance: 70Hz ■ Frequency response: 55Hz-6KHz
 ■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .57 ■ Vas: .7 cu. ft.

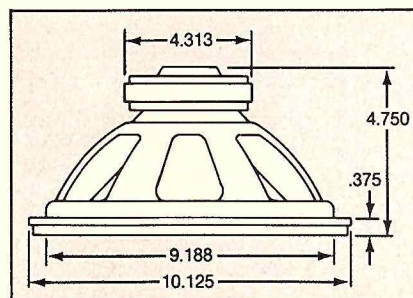
#55-330 \$42⁵⁰ (1-3) \$39⁹⁵ (4-up)



PIONEER® 10" Replacement Woofer

■ Magnet weight: 20 oz. ■ Structure weight: 4.5 lbs. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 60W/85W ■ Free air resonance: 35Hz ■ Frequency response: 35Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .269 ■ Vas: 8.8 cu. ft. ■ Pioneer #A25FU20-53F

#55-595 \$24⁹⁵ (1-3) \$21⁹⁵ (4-up)

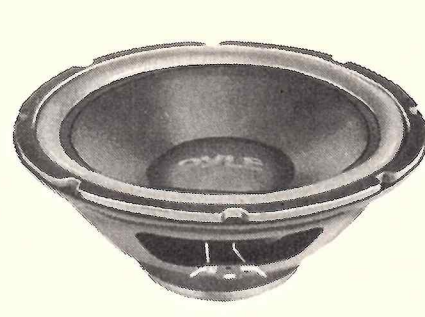
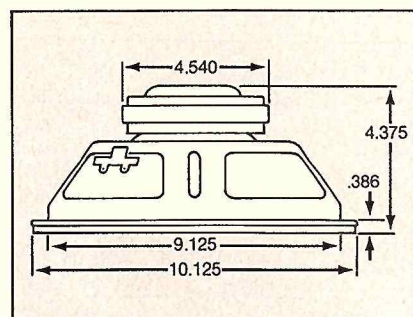


PYLE 10" Woofer

■ Display packaged ■ Made in USA ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 1 1/2" ■ Power handling: RMS/peak 75W/110W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-3KHz
 ■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .37 ■ Vas: 4.4 cu. ft.

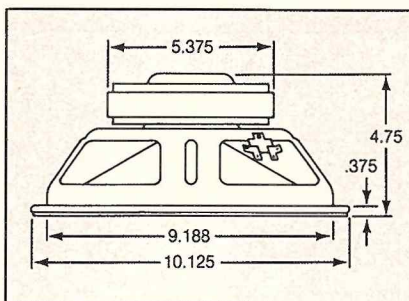
4ohm #55-470 \$33⁶⁵ (1-3) \$31⁰⁵ (4-up)

8ohm #55-100 \$32²⁰ (1-3) \$29³⁰ (4-up)





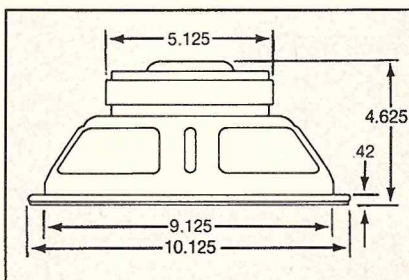
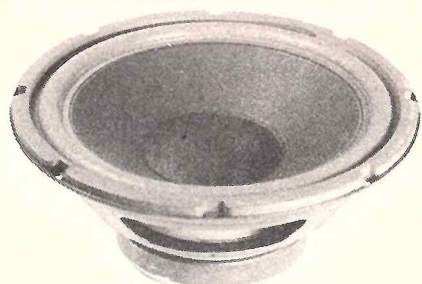
WOOFERS



PYLE 10" Heavy Duty Woofer

■ Long-throw paper woofer with polyfoam surround
■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm
■ Power handling: RMS/peak 85W/120W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-3.5KHz
■ Sensitivity SPL 1W/1 meter: 95dB ■ Qts: .48 ■ Vas: 1.79 cu. ft.

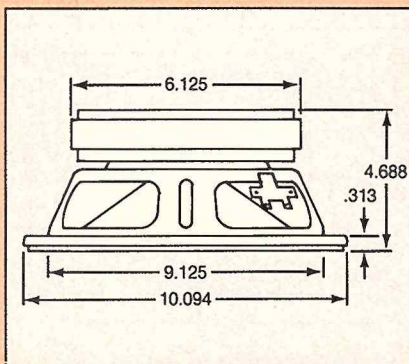
#55-520 \$45⁹⁵₍₁₋₃₎ \$43⁴⁵_(4-up)



PYLE 10" Dual Voice Coil Sub Woofer

■ Four-layer Kapton voice coils ■ Display packaged
■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" dual voice coil ■ 4ohm each coil
■ Power handling: RMS/peak 85W/120W ■ Free air resonance: 30Hz ■ Frequency response: 20Hz-2KHz
■ Sensitivity SPL 1W/1 meter: 93dB ■ Qts: .75 ■ Vas: 2.1 cu. ft.

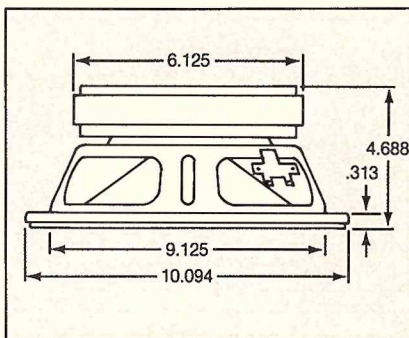
#55-425 \$49²⁵₍₁₋₃₎ \$46⁶⁵_(4-up)



PYLE 4ohm 10" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Ideal for car stereo applications
■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged
■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 125W/175W ■ Free air resonance: 45Hz
■ Frequency response: 35Hz-4.5KHz ■ Sensitivity SPL 1W/1 meter: 97dB ■ Qts: .17 ■ Vas: 2.7 cu. ft.

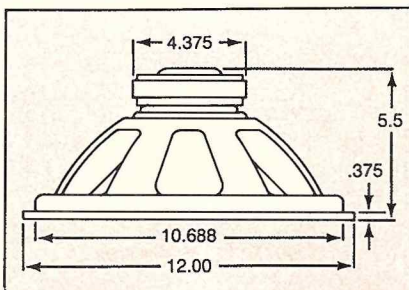
#55-610 \$76²⁵₍₁₋₃₎ \$72⁴⁵_(4-up)



PYLE 8ohm 10" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 125W/175W ■ Free air resonance: 45Hz ■ Frequency response: 40Hz-6KHz ■ Sensitivity SPL 1W/1 meter: 97dB ■ Qts: .39 ■ Vas: 2.6 cu. ft.

#55-630 \$73⁴⁵₍₁₋₃₎ \$69⁸⁰_(4-up)



PIONEER® 12" Polypropylene Woofer

■ Foam surround ■ Clear polypropylene cone ■ Magnet weight: 20 oz. ■ Voice coil: 1 1/2" ■ 8ohm ■ Power handling: RMS/peak 60W/85W ■ Free air resonance: 30Hz ■ Frequency response: 30Hz-1.5KHz ■ Sensitivity SPL 1W/1 meter: 92dB ■ Qts: .34 ■ Vas: 7.52 cu. ft.
■ Pioneer #A30FU20-53F

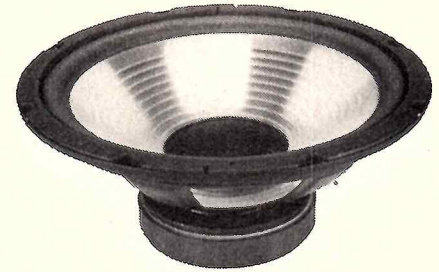
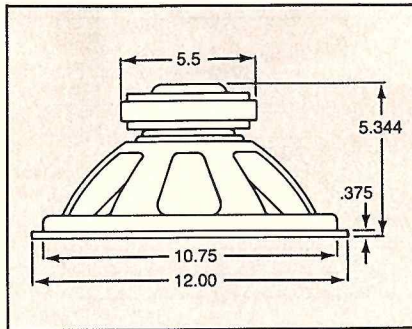
#55-525 \$29⁹⁵₍₁₋₃₎ \$27⁴⁰_(4-up)



PIONEER® 12" Polypropylene Woofer

■ Foam surround ■ Translucent poly cone ■ Magnet weight: 40 oz. ■ Structure weight: 8.5 lbs. ■ Voice coil: 2" ■ 6ohm nominal ■ Power handling: RMS/peak 100W/140W ■ Free air resonance: 25Hz ■ Frequency response: 25Hz-1.5KHz ■ Sensitivity SPL 1W/1 meter: 93dB ■ Qts: .17 ■ Vas: 10.8 cu. ft. ■ Pioneer #A30GU40-51D

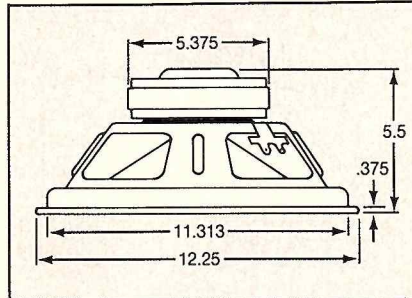
#55-515 \$45⁵⁰₍₁₋₃₎ \$42⁹⁰_(4-up)



PYLE 12" Polypropylene Woofer

■ Long-throw poly woofer with polyfoam surround ■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 90W/125W ■ Free air resonance: 25Hz ■ Frequency response: 20Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .36 ■ Vas: 10.4 cu. ft.

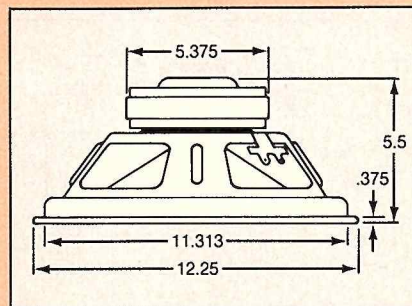
#55-535 \$48⁵⁰₍₁₋₃₎ \$45⁹⁵_(4-up)



PYLE 12" Poly White Cone Woofer

■ Rugged white cone with polyurethane foam surround ■ Made in USA ■ Magnet weight: 30 oz. ■ Structure weight: 6.5 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 95W/135W ■ Free air resonance: 35Hz ■ Frequency response: 30Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .38 ■ Vas: 8.5 cu. ft.

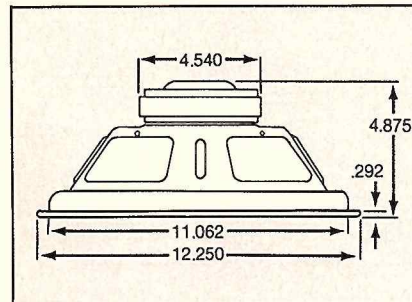
#55-485 \$46³⁰_(ea.)



PYLE 12" Musical Instrument Original Replacement for Fender Twin Reverb

■ Perfect replacement for most musical instrument applications ■ Display packaged ■ Made in USA ■ Magnet weight: 30 oz. ■ Structure weight: 6.5 lbs. ■ Voice coil: 1½" ■ 8ohm ■ Power handling: RMS/peak 95W/135W ■ Free air resonance: 80Hz ■ Frequency response: 65Hz-6.5KHz ■ Sensitivity SPL 1W/1 meter: 97dB ■ Qts: 1.02 ■ Vas: 1.0 cu. ft. ■ Manufacturer #MH1229

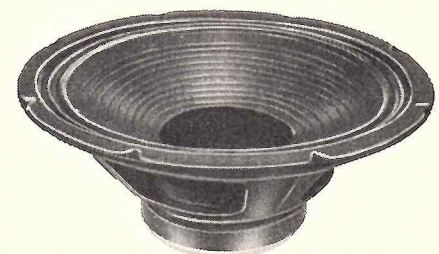
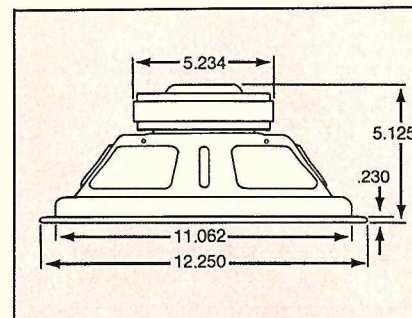
#55-310 \$38⁶⁰₍₁₋₃₎ \$35⁹⁵_(4-up)



PYLE 12" Musical Instrument

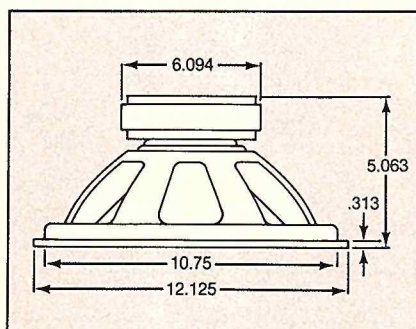
■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 105W/150W ■ Free air resonance: 70Hz ■ Frequency response: 55Hz-5.5KHz ■ Sensitivity SPL 1W/1 meter: 97dB ■ Qts: .52 ■ Vas: 1.9 cu. ft.

#55-150 \$49⁹⁵₍₁₋₃₎ \$47²⁵_(4-up)





WOOFERS

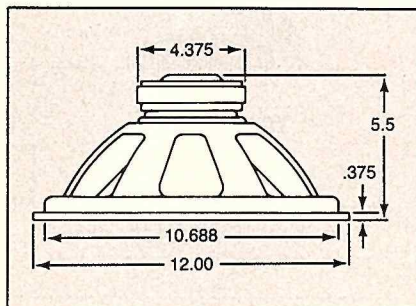


PIONEER®

12" Sound Reinforcement Woofer

■ Accordion type cloth surround ■ Magnet weight: 50 oz.
■ Structure weight: 7.5 lbs. ■ Voice coil: 2" ■ 8ohm
■ Power handling: RMS/peak 125W/175W ■ Free air
resonance: 45Hz ■ Frequency response: 45Hz-5KHz
■ Sensitivity SPL 1W/1 meter: 97dB ■ Qts: .44 ■ Vas:
6.36 cu. ft. ■ Pioneer #A30GC50-52FQ

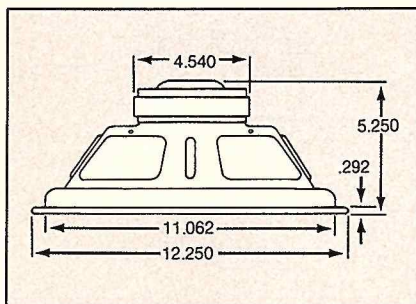
#55-545 \$56⁹⁵_(ea.) \$54⁵⁰_(2-up)



PIONEER® 12" Woofer

■ Excellent economical replacement woofer ■ Magnet
weight: 20 oz. ■ Structure weight: 7 lbs. ■ Voice coil:
1 1/2" ■ 8ohm ■ Power handling: RMS/peak 60W/85W
■ Free air resonance: 30Hz ■ Frequency response: 30Hz-
2.5KHz ■ Sensitivity SPL 1W/1 meter: 92dB ■ Qts: .36
■ Vas: 11.8 cu. ft. ■ Pioneer #A30FU20-52F

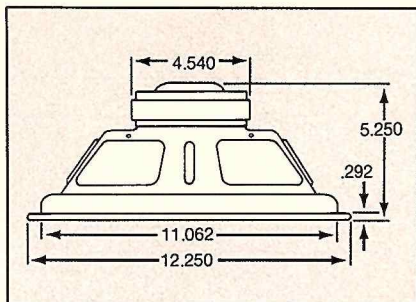
#55-510 \$31¹⁵₍₁₋₃₎ \$28⁶⁰_(4-up)



PYLE 4ohm 12" Woofer

■ High quality woofer designed for use in car stereo
systems ■ Long excursion, foam surround, and paper
cone for deep, smooth response ■ Display packaged
■ Made in USA ■ Magnet weight: 40 oz. ■ Structure
weight: 8 lbs. ■ Voice coil: 2" Kapton ■ Power handling:
RMS/peak 85W/120W ■ Free air resonance: 25Hz
■ Frequency response: 20Hz-3KHz ■ Sensitivity SPL
1W/1 meter: 95dB ■ Qts: .26 ■ Vas: 11.4 cu. ft.

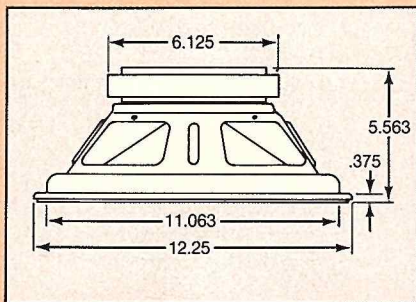
#55-655 \$53⁸⁰₍₁₋₃₎ \$49⁹⁵_(4-up)



PYLE 8ohm 12" Woofer

■ Display packaged ■ Made in USA ■ Magnet weight:
40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm
■ Power handling: RMS/peak 90W/125W ■ Free air
resonance: 25Hz ■ Frequency response: 20Hz-3.5KHz
■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .41 ■ Vas:
8.5 cu. ft.

#55-140 \$46⁵⁰₍₁₋₃₎ \$43⁹⁰_(4-up)



PYLE 12" Professional Bass Driver

■ Engineered for maximum bass output and
improved power handling capability ■ PlastiSeal
treated cloth surround ■ Made in USA ■ Magnet
weight: 70 oz. ■ Structure weight: 14 lbs. ■ Voice
coil: 2 1/2" ■ 8ohm ■ Power handling: RMS/peak
135W/190W ■ Free air resonance: 57Hz ■ Frequency
response: 30Hz-4KHz ■ Sensitivity SPL 1W/1 meter:
98dB ■ Qts: .44 ■ Vas: 2.46 cu. ft.

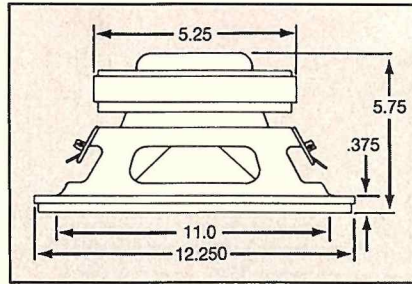
#55-555 \$76⁹⁵₍₁₋₃₎ \$74³⁰_(4-up)



PYLE 12" Dual Voice Coil Sub Woofer

■ Four-layer Kapton voice coils ■ Display packaged
 ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" dual voice coil ■ 4ohm each coil ■ Power handling: RMS/peak 90W/125W ■ Free air resonance: 30Hz ■ Frequency response: 20Hz-4.5KHz ■ Sensitivity SPL 1W/1 meter: 94dB ■ Qts: .49 ■ Vas: 7.3 cu. ft.

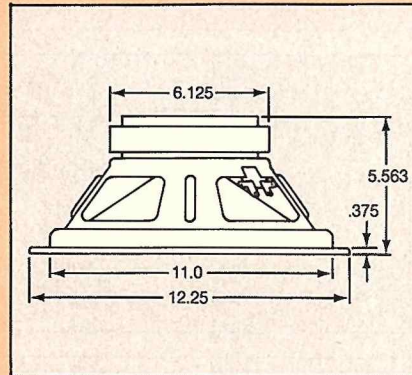
#55-440 \$60⁰⁰₍₁₋₃₎ \$57³⁵_(4-up)



PYLE 4ohm 12" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 135W/190W ■ Free air resonance: 45Hz ■ Frequency response: 35Hz-4.5KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .31 ■ Vas: 2.6 cu. ft.

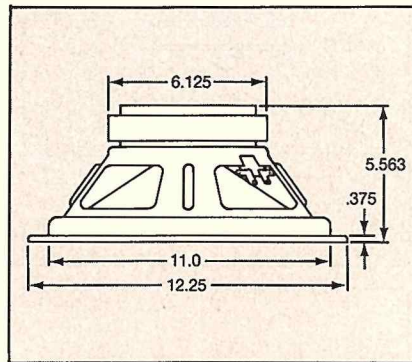
#55-615 \$79⁸⁵₍₁₋₃₎ \$74⁵⁰_(4-up)



PYLE 8ohm 12" Pro Woofer

■ Professional quality woofer designed for the serious audiophile and engineered to provide maximum bass output ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 135W/190W ■ Free air resonance: 45Hz ■ Frequency response: 35Hz-5.5KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .44 ■ Vas: 2.5 cu. ft.

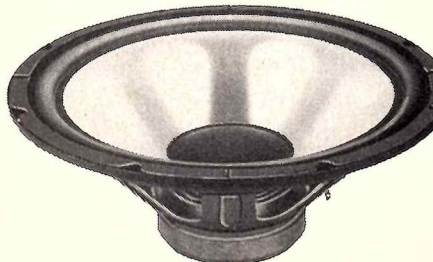
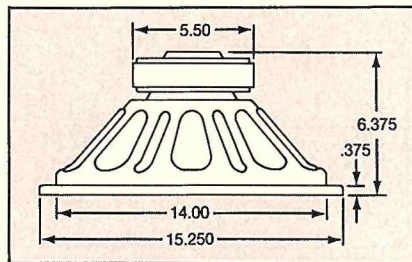
#55-635 \$84⁵⁵₍₁₋₃₎ \$78⁸⁵_(4-up)



PIONEER® 15" Polypropylene Woofer

■ Foam surround ■ Clear polypropylene cone ■ Magnet weight: 40 oz. ■ Voice coil: 2" ■ 6ohm ■ Power handling: RMS/peak 100W/144W ■ Free air resonance: 25Hz ■ Frequency response: 25Hz-2.5KHz ■ Sensitivity SPL 1W/1 meter: 92dB ■ Qts: .297 ■ Vas: 9.7 cu. ft. ■ Pioneer #A38GU40-51D

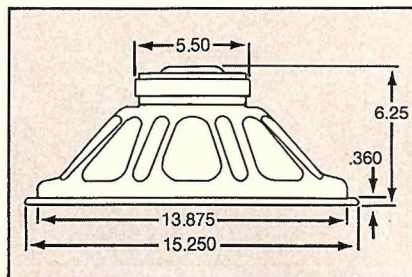
#55-600 \$49⁹⁵_(ea.)



PYLE 15" Heavy Duty Polypropylene Woofer

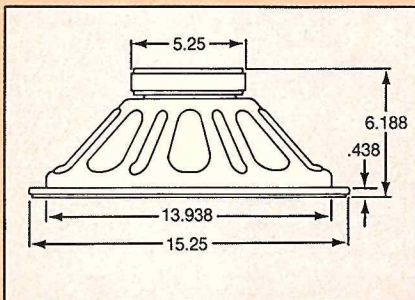
■ Foam surround ■ Display packaged ■ Made in USA ■ Magnet weight: 60 oz. ■ Structure weight: 9.5 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 100W/144W ■ Free air resonance: 25Hz ■ Frequency response: 20Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .58 ■ Vas: 9.6 cu. ft.

#55-445 \$58²⁵₍₁₋₃₎ \$55⁷⁵_(4-up)





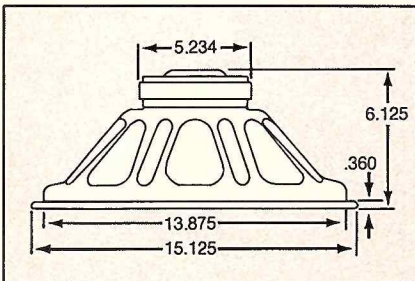
WOOFERS



PYLE Poly 15" White Cone Woofer

■ Polyurethane foam surround ■ Magnet weight: 20 oz. ■ Structure weight: 4 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 75W/110W ■ Free air resonance: 35Hz ■ Frequency response: 30Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 96dB ■ Qts: .51 ■ Vas: 11.0 cu. ft.

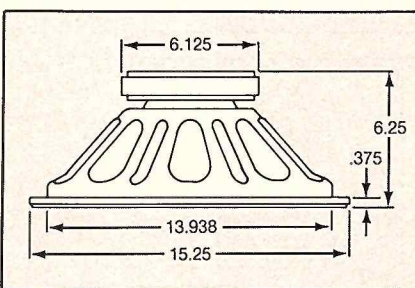
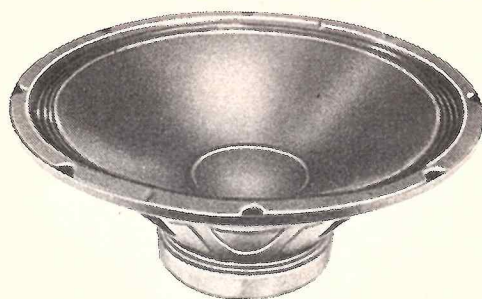
#55-540 \$49⁵⁰₍₁₋₃₎ \$48⁵⁰_(4-up)



PYLE 15" Musical Instrument

■ Display packaged ■ Made in USA ■ Magnet weight: 40 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 110W/160W ■ Free air resonance: 65Hz ■ Frequency response: 50Hz-5KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .66 ■ Vas: 4.5 cu. ft.

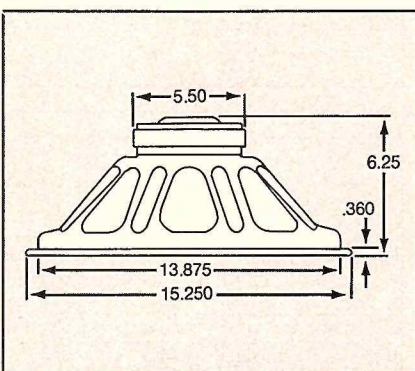
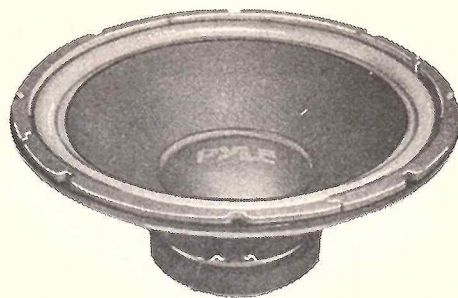
#55-190 \$51⁶⁵₍₁₋₃₎ \$49⁰⁰_(4-up)



PIONEER® 15" Sound Reinforcement Woofer

■ Accordion type cloth surround ■ Magnet weight: 50 oz. ■ Structure weight: 8 lbs. ■ Voice coil: 2" ■ 8ohm ■ Power handling: RMS/peak 125W/175W ■ Free air resonance: 40Hz ■ Frequency response: 40Hz-5KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .55 ■ Vas: 6.98 cu. ft. ■ Pioneer #A38GC50-52FQ

#55-550 \$66⁵⁰_(ea.) \$63⁹⁵_(2-up)



PYLE 15" Heavy Duty Woofer

■ Foam surround ■ Display packaged ■ Made in USA ■ Magnet weight: 60 oz. ■ Structure weight: 9.5 lbs. ■ Voice coil: 2" ■ Power handling: RMS/peak 100W/144W ■ Free air resonance: 25Hz ■ Frequency response: 20Hz-3KHz ■ Sensitivity SPL 1W/1 meter: 98dB

4ohm

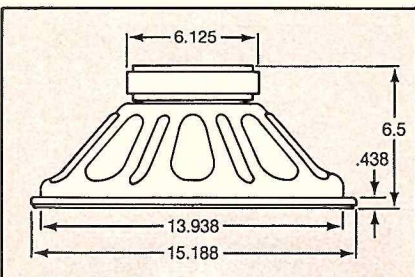
■ Qts: .53 ■ Vas: 9.7 cu. ft.

#55-660 \$64⁸⁰₍₁₋₃₎ \$61⁰⁵_(4-up)

8ohm

■ Qts: .27 ■ Vas: 6.5 cu. ft.

#55-180 \$65⁵⁰₍₁₋₃₎ \$62⁹²_(4-up)



PYLE 15" Professional Bass Driver

■ Engineered for maximum bass output and improved power handling capability ■ PlastiSeal treated cloth surround ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 15 lbs. ■ Voice coil: 2 1/2" ■ 8ohm ■ Power handling: RMS/peak 140W/195W ■ Free air resonance: 35.4Hz ■ Frequency response: 20Hz-3.5KHz ■ Sensitivity SPL 1W/1 meter: 99dB ■ Qts: .41 ■ Vas: 10.85 cu. ft.

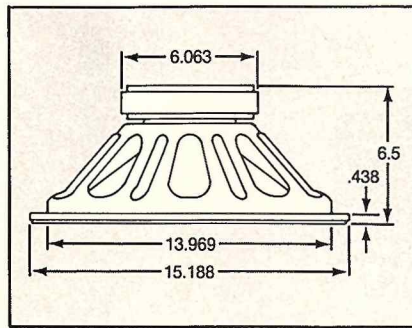
#55-560 \$84⁶⁵₍₁₋₃₎ \$82¹⁰_(4-up)



PYLE 4ohm 15" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Ideal for car stereo applications ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 140W/200W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-4KHz ■ Sensitivity SPL 1W/1 meter: 99dB ■ Qts: .29 ■ Vas: 9.9 cu. ft.

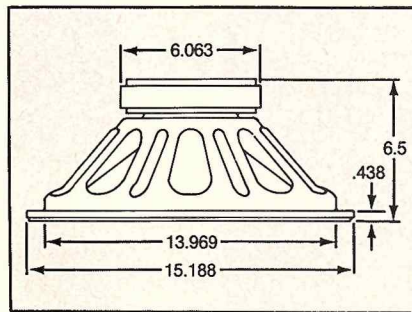
#55-620 \$92⁹⁰₍₁₋₃₎ \$87⁹⁰_(4-up)



PYLE 8ohm 15" Pro Woofer

■ Professional quality woofer designed for the serious audiophile ■ Engineered to provide maximum bass output ■ Precision anti-flex housing insures structural stability and precise alignment of critically spaced components ■ PlastiSeal treated cloth surround gives added strength and long life ■ Display packaged ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 11 lbs. ■ Voice coil: 2 1/2" ■ Power handling: RMS/peak 140W/200W ■ Free air resonance: 35Hz ■ Frequency response: 25Hz-5KHz ■ Sensitivity SPL 1W/1 meter: 99dB ■ Qts: .41 ■ Vas: 10.9 cu. ft.

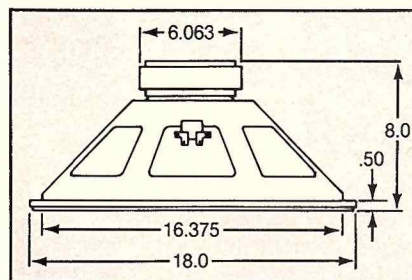
#55-640 \$92⁹⁵₍₁₋₃₎ \$87⁹⁵_(4-up)



PYLE 18" Professional Bass Driver

■ Engineered for maximum bass output and improved power handling capability ■ PlastiSeal treated cloth surround ■ Made in USA ■ Magnet weight: 70 oz. ■ Structure weight: 15 lbs. ■ Voice coil: 2 1/2" ■ 8ohm ■ Power handling: RMS/peak 150W/210W ■ Free air resonance: 31.9Hz ■ Frequency response: 20Hz-3KHz ■ Sensitivity SPL 1W/1 meter: 98dB ■ Qts: .55 ■ Vas: 7.96 cu. ft.

#55-565 \$111⁹⁵_(ea.) \$106⁹⁵_(2-up)



University Sound Drivers

These drivers, manufactured for MCM Electronics by Electro-Voice/University Sound, represent the ultimate in maximum efficiency sound reproduction. Years of experience, testing, and design refinement have resulted in a series of loudspeakers that are universally accepted by sound consultants, contractors, musicians, and touring sound companies.



Diffraction Horn

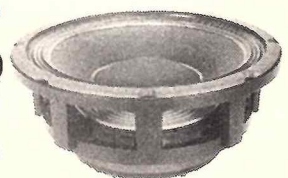
■ Designed to be used with EV midrange driver #54-085 ■ Rigid die-cast construction ■ Has standard 1 3/8" — 18 threads per inch for use with most drivers ■ Provides superior dispersion of midrange frequencies ■ Dimensions: 15" (W) x 4 1/2" (H) x 10 1/2" (D)

#54-080 \$29⁵⁰_(ea.)

EV Low Frequency Loudspeakers

■ All have 8ohm impedance and a 2 1/2" voice coil *At 4', 200W input, **Cubic feet

Order #	Width	Frequency Response	SPL	RMS/Instantaneous Peak Power Handling	Magnet Weight	Qts./Vas.	Mounting Depth	Weight	Price (ea.)
55-680	10"	75-7000Hz	118dB*	150/600 W	10 lbs.	.38/1.8**	4 1/2"	12 lbs.	\$115.00
55-340	12"	80-7000Hz	121dB*	200/800 W	16 lbs.	.248/2**	5 1/2"	18 lbs.	146.50
55-350	15"	60-3500Hz	124dB*	200/800 W	16 lbs.	.297/7.95**	6 1/2"	20 lbs.	165.90
55-360	18"	50-5000Hz	122dB*	200/800 W	16 lbs.	.36/18.22**	7 1/2"	21 lbs.	209.25



Replacement Diaphragm

#54-155

\$34⁹⁵_(ea.)

1 YEAR LIMITED WARRANTY



Midrange Driver

■ Frequency response: 300Hz-4.5KHz ± 5dB ■ SPL 1W/1 meter: 105dB ■ 8ohm ■ Crossover frequency: 800Hz ■ Voice coil diameter: 2" ■ Magnet weight: 24 oz. ■ Power capacity: RMS/peak 40/60W ■ Throat size: 1 3/8" — 18 threads per inch ■ Uses diffraction horn #54-080

#54-085 \$96²⁵_(ea.)

Replacement Diaphragm

#53-235

\$19⁹⁵_(ea.)

1 YEAR LIMITED WARRANTY



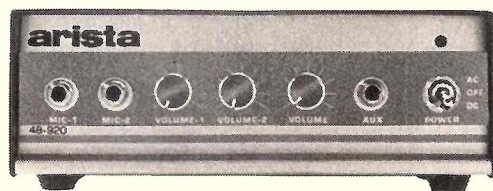
High Compression Horn Tweeter

■ Frequency response: 3.5KHz-15KHz ± 4dB ■ SPL 1W/1 meter: 101dB ■ 8ohm ■ Crossover frequency: 3500Hz ■ Voice coil diameter: 1" ■ Magnet weight: 8 oz. ■ Power capacity: RMS/peak 5/50W ■ Dimensions: 2 19/32" (W) x 5 1/4" (H) x 2 11/32" (D)

#53-140 \$37²⁵_(ea.)



Public Address Amplifiers

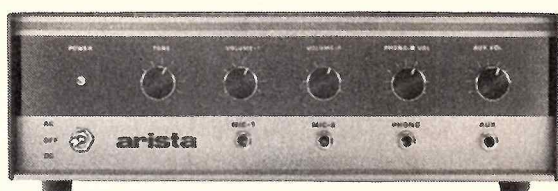


20 Watt

This versatile PA amplifier can be used in small auditoriums, churches or as a perfect addition to your business phone system PA. Complete solid state circuitry that can utilize either 12VDC from your car, truck, camper or boat; or standard 117VAC at home.

Features: ■ Two microphone inputs with separate volume controls ■ Auxiliary input for tape, tuner, or any other low level signal (200mV) ■ 8 or 16ohm speaker output terminals ■ Connect up to four speakers to equal 8 or 16ohm impedance ■ LED power indicator ■ Dual fuse protected ■ Banana jack output terminals ■ Industry standard phone jack inputs ■ Dimensions: 8" (W) x 3 1/4" (H) x 9" (D)

#80-185 Suggested list \$179.95 \$122⁷⁵_(ea.)

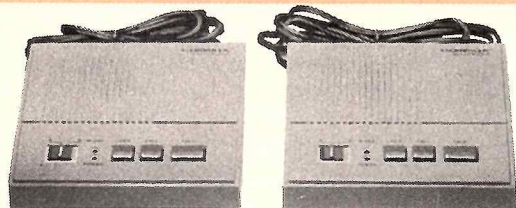


50 Watt

■ A high output power amplifier adequate for use in large auditoriums, churches and office buildings. 70V and 100V line outputs, make it capable of driving systems with multiple speakers and longer cable runs. Also, low impedance outputs of 4, 8 and 16ohm. You can use either standard 117VAC house voltage or 12VDC from your car, truck or motor home.

Features: ■ LED power indicator ■ Dual fuse protected ■ Two 50Kohm microphone inputs with volume control ■ One ceramic cartridge phono input with volume control ■ One low level (200mV) auxiliary input with volume control for tape or tuner input ■ Special fader control for auxiliary and phono mixing ■ Adjustable tone control ■ 117V auxiliary, unswitched outlet on rear of unit, that enables you to plug a tuner or tape deck in ■ Spring loaded, quick-release speaker terminals ■ Dimensions: 13" (W) x 4 1/2" (H) x 10 1/2" (D)

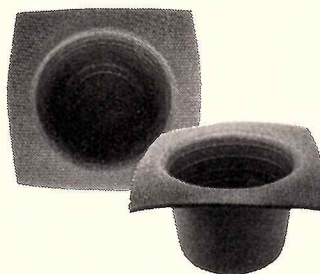
#80-190 Suggested list \$229.95 \$184⁵⁰_(ea.)



FM Wireless Intercom

■ No installation, just plug into wall outlet and use ■ Provides talk, listen and call functions ■ Each station is switchable between two channels for privacy ■ FM operation eliminates electrical interference ■ Lock feature for hands-free talking ■ Sold in pairs

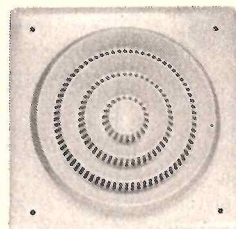
#80-245 \$37⁰⁰_(pr.)



8" Acoustic Baffle

■ Protects PA speakers from dust and water contamination ■ Improves sound quality ■ Pliable to fit any installation ■ Packaged in pairs

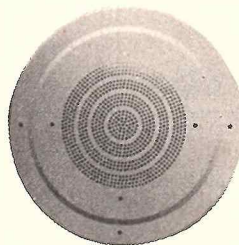
#60-290 \$9⁴⁵_(pr.)



PA Speaker Baffle

■ Recessed plastic ceiling diffuser baffle ■ Same baffle as on our #55-250 on page 141 ■ For use with #55-060 on page 141 or any 8" PA speaker ■ White

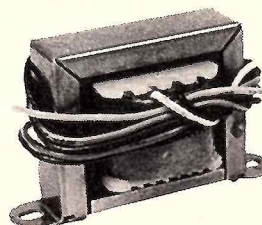
#50-465 \$6⁶⁸₍₁₋₉₎ \$5⁵¹₍₁₀₋₂₄₎



Ceiling and Wall Grill for 8" Speakers

■ Hardware included ■ White

#50-150 \$4⁴⁰₍₁₋₉₎ \$3⁶⁵₍₁₀₋₂₄₎



Line Transformers

■ For use in matching 8ohm speakers to amplifier with 70.7V or 25V line outputs ■ Primary taps .63, 1.25, 2.5, 5 and 10W ■ Secondary impedance 8ohm ■ 10W power rating ■ Sorry—no mixing of types for quantity pricing

#50-120 (25V) \$5³⁶₍₁₋₉₎ \$4⁵⁰₍₁₀₋₂₄₎
#50-130 (70.7V)



70 Volt Line Attenuator

■ Provides level control of a single speaker or a group of speakers totalling 10W ■ Nine steps of attenuation plus "off" position ■ For use with 70V lines ■ 6dB attenuation on steps 1-7, 3dB attenuation on step 8, and 0dB attenuation on step 9 ■ Brushed stainless steel wall plate with black ABS knob

#50-495 \$12³⁸₍₁₋₉₎ \$10⁶⁴₍₁₀₋₂₄₎



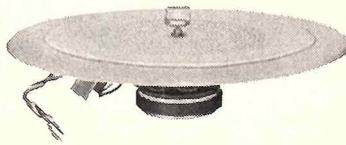
**Fast and accurate
order processing!**



8" Public Address Speaker System with Volume Control

■ Allows volume adjustment of PA at each speaker ■ Premounted 70.7V, 10W line transformer ■ 1" voice coil ■ 8ohm ■ 10W (15W peak) ■ 3" mounting depth ■ 10 oz. ceramic magnet

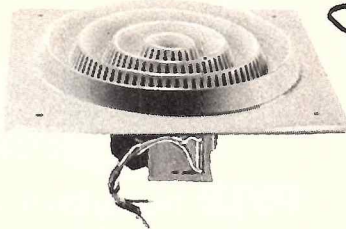
#55-500 \$21⁵⁰₍₁₋₃₎ \$19⁹⁵_(4-up)



8" Public Address Speaker System

■ Pre-assembled for fast installation ■ Premounted 70.7V, 10W line transformer ■ 1" voice coil ■ 8ohm ■ 10W (15W peak) ■ 3" depth ■ 10 oz. ceramic magnet ■ Recessed plastic ceiling diffuser baffle

#55-250 \$15⁹⁰₍₁₋₃₎ \$14⁴⁰_(4-up)



6 1/2" Full Range Speaker

■ Paper cone with whizzer ■ 3 oz. magnet weight ■ 12.76 oz. structure weight ■ 3/4" voice coil ■ 8ohm ■ Power handling: RMS/peak 10W/15W ■ Free air resonance: 90Hz ■ Frequency response: 90Hz-10KHz ■ Sensitivity SPL 1W/1 meter: 91dB

#51-210 \$3⁹⁵₍₁₋₃₎ \$3⁵⁰_(4-up)



8" Public Address Speaker

■ Prestamped for easy transformer mount ■ 10 oz. ceramic magnet ■ 40Hz-17KHz response ■ 1" voice coil ■ 8ohm ■ Perfect for background music and paging applications ■ 10W (15W peak) ■ 3" depth ■ Weight: 2 lbs.

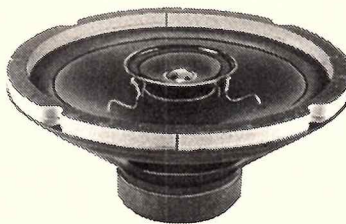
#55-060 \$9²⁵₍₁₋₃₎ \$8⁷⁵_(4-up)



PIONEER® 8" Two-Way

■ Ideal full range speaker for music reproduction in public address systems ■ Speaker frame has mounting flange for 70V line transformer ■ Woofer: 8" paper cone with 9.9 oz. magnet weight and 1" voice coil ■ Tweeter: 2" paper cone with 2 oz. magnet weight and 5/8" voice coil ■ 8ohm ■ Power handling: RMS/peak 20W/30W ■ Free air resonance: 49Hz ■ Frequency response: 50Hz-15KHz ■ Sensitivity SPL 1W/1 meter: 97dB

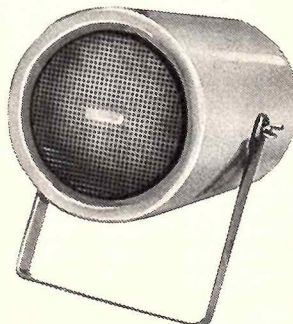
#55-530 \$20⁸⁵_(ea.)



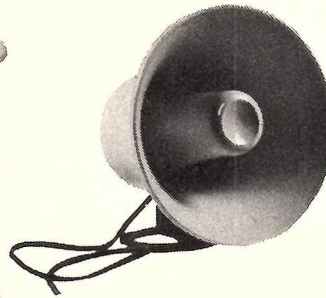
Outdoor Speaker

■ Attractive contemporary indoor/outdoor speaker provides full range sound for music or paging ■ Rugged construction provides years of trouble-free outdoor use ■ 6 1/2" poly cone full range speaker in sealed, weatherproof housing ■ Ideal for patios, poolside, outdoor restaurants, etc. ■ 25W maximum ■ 8ohm ■ Complete with mounting bracket and hardware

#55-570 \$49⁹⁵₍₁₋₉₎ \$47⁵⁰_(10-up)



Paging Horns



5"

■ High-impact plastic housing ■ Weather-resistant ■ Swivel type mounting bracket ■ Good for CB, PA extension speaker ■ 20W power handling ■ 300Hz-13KHz response ■ 8ohm

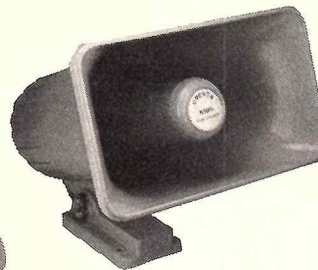
#55-220 \$10⁹⁵₍₁₋₃₎ \$9⁹⁵₍₄₋₁₉₎ \$8⁹⁵_(20-up)



7 1/2"

■ High-impact plastic housing ■ Weather-resistant ■ 200Hz-13KHz response ■ 30W power handling ■ 8ohm

#55-230 \$22⁷⁰₍₁₋₃₎ \$21²⁰₍₄₋₁₉₎ \$19⁷⁰_(20-up)



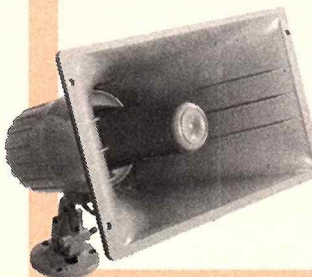
8" x 5"

■ Low profile design for easy installation in tight areas ■ Weather-resistant ■ Swivel type mounting bracket ■ 300Hz-5KHz response ■ 30W power handling ■ 8ohm

#55-240 \$23⁷⁰₍₁₋₃₎ \$22²⁰_(4-up)

Replacement Diaphragm

#55-695
\$14⁹⁵_(ea.)



11" x 6 1/2" Universal

■ Variable power control allows quick and easy selection of desired volume level ■ Built-in line transformers: 70V/25V ■ High-impact plastic housing ■ May also be wired direct: 8ohm ■ Swivel type mounting bracket ■ 32W power handling ■ 300Hz-14KHz response ■ 125dB sound level at 32W from 4' ■ Beige

Specifications: ■ Impedance taps: 2500/1250/625/312/156/83/42ohm ■ Wattage taps: 70V-2/4/8/16/32W; 25V-1/2/4/8/16W

#55-575 \$42⁷⁰₍₁₋₉₎ \$40²⁰_(10-up)

7 1/2" Universal

■ Variable power control allows quick selection of desired volume level ■ Built-in line transformers: 70V/25V ■ High-impact plastic housing ■ May also be wired direct: 8ohm ■ Swivel type mounting bracket ■ 16W power handling ■ 350Hz-14KHz response ■ 120dB sound level at 16W from 4' ■ Beige

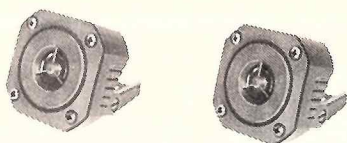
Specifications: ■ Impedance taps: 5000/1250/625/312/83ohm ■ Wattage taps: 70V-1/2/4/8W; 25V-.05/1/2/4/8W

#55-580 \$37⁹⁵₍₁₋₉₎ \$35⁵⁰_(10-up)





PYLE AUTO SPEAKERS



PYLE Mini Dome Satellite Tweeters

■ Hi-temp polythermal voice coil ■ Ferrofluid cooled ■ Swivel base design
 ■ Comes with 6dB crossover ■ Perfect for car stereo ■ 30W RMS ■ 60W peak
 ■ 8ohm ■ Frequency response: 4KHz-20KHz ■ SPL 1W/1 meter: 90dB ■ 3/8" voice coil diameter ■ 1 oz. magnet ■ Dimensions: 2 3/8" (W) x 2 3/8" (H) x 1 1/2" (D)
 ■ Made in USA ■ Each pair display packaged

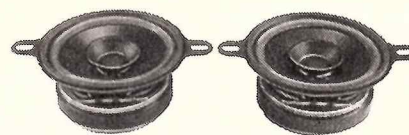
#53-170.....\$32⁹⁰ (1-3 prs.).....\$30²⁵ (4 prs.-up)



PYLE Dash Mount Tweeter Pair

■ Low profile tweeter with mounting plate for Ford and GM cars with 3 1/2" and 4" x 6" mounts ■ 1" mounting depth ■ Ferrofluid cooled voice coil reduces burnouts ■ Includes wire, mounting hardware, and crossover capacitors
 ■ Power handling RMS/peak: 40/55 (when used with 12dB crossover) ■ 8ohm
 ■ Frequency response: 4KHz-20KHz ■ Made in USA ■ Display packaged

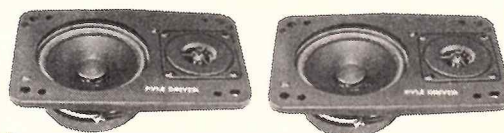
#53-260.....\$52²⁰ (pr.).....\$47⁴⁵ (2 prs.-up)



PYLE 3 1/2" Full Range Speaker Kit

■ High quality replacements for GM and Ford dash speakers ■ Polypropylene speakers with foam surround for long wear ■ Whizzer cone extends high-frequency response ■ High temp polythermal voice coil ■ Power handling RMS/peak: 20/30W ■ Frequency response: 90Hz-18KHz ■ Shallow 1 1/2" mounting depth ■ 3/4" voice coil ■ 4-8ohm ■ Made in USA ■ Display packaged

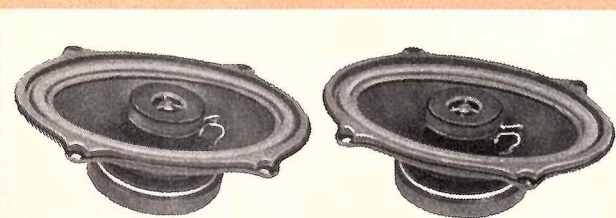
#51-245.....\$41³⁵ (kit)



PYLE Two-Way Satellite System Pair

■ Designed to replace factory 4" x 6" dash mount speakers ■ Combines a 3 1/2" poly midrange and a mini dome tweeter with ferrofluid cooling ■ Shallow 1 1/2" profile allows for easy mounting ■ Built-in 6dB per octave crossover ■ Includes wire and mounting hardware ■ Power handling RMS/peak: 30/40W ■ 4ohm
 ■ Frequency response: 200Hz-20KHz ■ Dimensions: 6" (W) x 4" (H) x 1 1/2" (D)
 ■ Made in USA ■ Display packaged ■ Note: Does not include grills

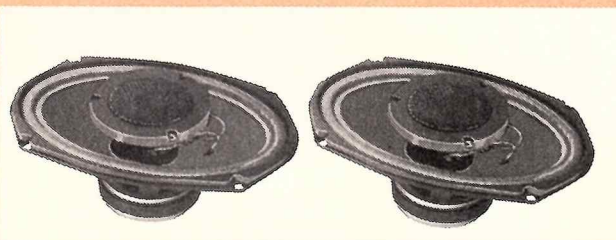
#51-235.....\$71³⁵ (pr.).....\$67⁸⁵ (2 prs.-up)



PYLE 5" x 7" Poly Co-Axial Speaker Kit

■ Long throw poly woofer with polyfoam surround for superb low bass ■ Low profile wide dispersion ferrofluid cooled dome tweeter
 ■ Built-in 6dB crossover ■ 10 oz. magnet ■ 4ohm ■ Power handling RMS/peak: 35/50W ■ 1" voice coil ■ Frequency response: 60Hz-20KHz
 ■ 2 3/8" mounting depth ■ Made in USA

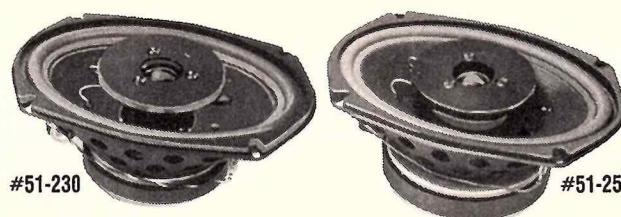
#51-260.....\$79⁹⁵ (kit).....\$74⁵⁰ (2 kits-up)



PYLE 6" x 9" Co-Axial Speakers

■ Fiber impregnated woofer for better power handling and longer life
 ■ 3" ferrofluid cooled tweeter ■ Includes hook-up wire, hardware, and metal grills ■ Power handling RMS/peak: 45/65W ■ 4ohm ■ Frequency response: 45Hz-20KHz ■ 10 oz. magnet weight ■ 2 3/4" mounting depth
 ■ Made in USA

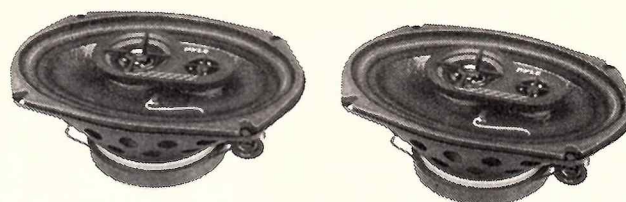
#51-225.....\$96³⁰ (pr.).....\$91⁶⁰ (2 prs.-up)



PYLE Heavy Duty 6" x 9" Co-Axials

■ Long throw poly woofer with polyfoam surround ■ Ferrofluid cooled dome tweeter with polyswitch protection ■ Includes hook-up wire, hardware, crossover and metal grills ■ 4ohm ■ Made in USA

Order #	Power Watts RMS/Peak	Frequency Response	Magnet Weight	Mounting Depth	Price (Pr.)	Price (2 Prs.-up)
51-230	65/90	40Hz-20KHz	20 oz.	3 3/8"	\$129.95	\$126.50
51-255	100/140	50Hz-20KHz	40 oz.	3 5/8"	159.95	154.00



PYLE 6" x 9" 3-Way Speakers

■ Polymer laminate woofer cone resists moisture and extreme temperatures
 ■ Poly cone 2" midrange and 1" tweeter ■ Includes hook-up wire, hardware, crossover and metal grills ■ Power handling RMS/peak: 65/90W ■ 4ohm
 ■ Frequency response: 40Hz-20KHz ■ 20 oz. magnet weight ■ 3 1/2" mounting depth ■ Made in USA

#51-265.....\$189⁹⁵ (pr.)

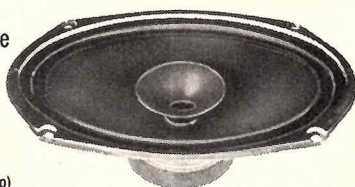


AUTO SPEAKERS

6" x 9" Dual Cone Rear Deck Speaker

■ Whizzer cone for extended high-frequency response ■ Cloth rolled-edge suspension ■ 1" voice coil ■ 8ohm ■ 15W maximum power handling capacity ■ 10 oz. magnet weight ceramic ■ Weight: 2 lbs.

#51-050 \$8⁵⁰₍₁₋₉₎ \$7⁹⁵_(10-up)

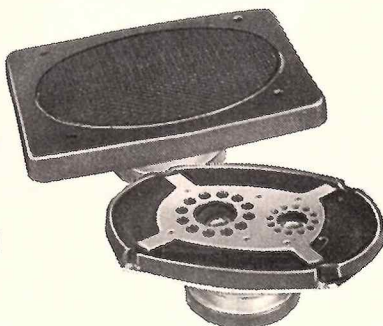


TENMA™

6" x 9" Three-Way Speaker Kit

■ Two 6" x 9", three-way speakers capable of handling 50W of system power ■ 25W each speaker ■ 2 1/2" high sensitivity midrange ■ 1" high-frequency cone tweeter ■ Foam edge ■ Hook-up wire, mounting hardware, and attractive wire mesh grills included ■ 8ohm ■ 20 oz. magnet weight ■ 3 3/4" deep

#51-060 \$29⁵⁶_(1-3 kits) \$26⁶¹_(4 kits-up)



PYRAMID™

Bridgeless 6" x 9" Three-Way Speaker Kit

■ Two 6" x 9" poly woofers with foam surround ■ 2 1/2" poly midrange ■ 1 3/4" poly tweeter ■ Power rating: 60W ■ Frequency response: 40Hz-20KHz ■ 4ohm ■ Expanded wire mesh grills, hook-up wire and mounting hardware included ■ 16 oz. magnet weight

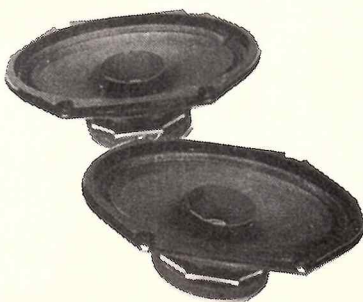
#51-195 \$41⁹⁵_(kit)



5" x 7" Speaker Kit

■ Two 5" x 7" dual cone speakers with grills ■ 10 oz. magnet weight ■ 8ohm ■ Power handling: 20W ■ Kit also contains: Fender mount antenna, hook-up wire, and hardware

#51-240 \$15⁰⁰_(kit)



4" Car Speaker

■ Full range ■ 25W capacity ■ Ideal for imports ■ 4ohm ■ 8 oz. magnet weight ■ Weight: 1 lb.

#51-020 \$7⁸⁰_(ea.)



4" Polypropylene Speaker Kit

■ Two 4" full range polypropylene speakers capable of handling 50W of system power ■ 25W each speaker ■ 2" mounting depth ■ 4ohm ■ 70Hz-12KHz frequency response ■ Hook-up wire, mounting hardware and low profile wire mesh grills included ■ Display packaged

#51-125
\$19⁹⁵_(1-3 kits) ... \$17⁸⁰_(4-19 kits) ... \$15⁹⁵_(20 kits-up)



5" Wedge Speaker Kit

■ Contains two 5" full range speakers in black wedge-shaped cases ■ Includes speaker wire and hardware ■ Frequency response: 75Hz-10KHz ■ 4ohm ■ 15W maximum power handling capacity ■ 3 oz. magnet weight ■ Display packaged

#51-030 \$10⁵⁰_(kit)



MG Three-Way Mini Speaker

■ 8ohm ■ Easy to install ■ Two three-way high intensity mini speakers ■ Diecast construction ■ Wire mesh grill ■ 30W RMS ■ 50W maximum ■ Adjustable mounting bracket included ■ 60Hz-20KHz response ■ Dimensions: 4 1/2" (W) x 7 1/4" (L) x 4 1/8" (D) ■ Display packaged

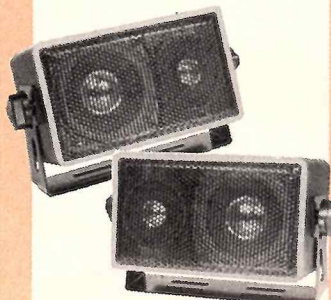
#51-090 .. \$39⁹⁵_(1-3 prs.) ... \$35¹⁰_(4 prs.-up)



Two-Way Mini Speaker System

■ Great when space or mounting is a problem ■ Easy to install ■ For use in cars, vans, boats, and homes ■ Two mini two-way speakers ■ 30W maximum per channel ■ 8ohm ■ Mounting brackets, hook-up wire, and hardware included ■ 80Hz-20KHz response ■ Dimensions: 3 3/8" (W) x 5 1/2" (L) x 3 1/4" (D) ■ Display packaged

#51-070 \$22¹⁵_(pr.)



3 1/2" Original Delco Car Speaker

■ Dash mount speaker used in most GM cars ■ 8ohm ■ Power handling: RMS/peak 10W/15W ■ 3.8 oz. magnet weight ■ Frequency response: 150Hz-12KHz

#58-285 \$3⁷⁵_(ea.)



Fast and accurate
order processing!



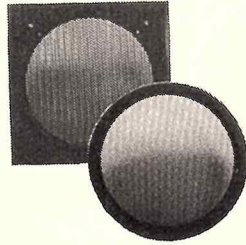
Car Audio Speaker Grills

- Square, low profile wire mesh grill for 6 1/2" woofer ■ Black ■ 7 1/8" square ■ 3/4" thick
- Sold in pairs ■ No hardware included

#51-135 \$350 (1-3 prs.) \$295 (4 prs.-up)

- Round, wire mesh grill with nylon dust screen for 8" woofer ■ Black ■ 8 3/4" diameter ■ 3/4" thick ■ Sold in pairs ■ Hardware included

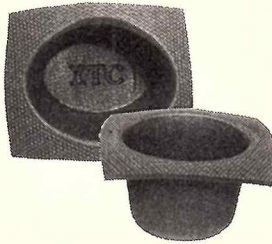
#51-140 \$525 (1-3 prs.) \$480 (4 prs.-up)



Acoustic Baffles

- Eliminates water damage ■ Reduces road noise ■ Improves door acoustics ■ Increases power handling ■ Baffles compress to fit most doors ■ Sold in pairs

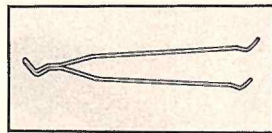
Order #	Size	Price Per Pair
60-275	Shallow 5"	\$4.95
60-280	6 1/2"	7.45
60-285	6" x 9"	7.45
60-290	8"	9.45



6" x 9" Wire Brackets

- Quickly mounts 6" x 9" speakers in GM cars originally equipped with 4" x 10" speakers

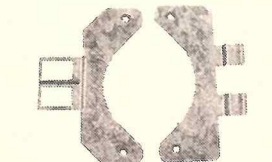
#60-335 \$105 (1-9) 80¢ (10-up)



GM Type 6" x 9" Mounting Kit

- Designed for mounting 6" x 9" speakers too large and heavy for wire hangers ■ Heavy gauge steel ■ No drilling required
- Instructions and hardware included
- Mounts one pair of speakers

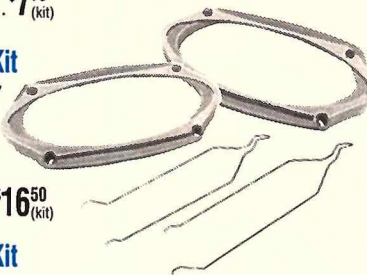
#60-620 \$775 (kit)



GM Type 4" x 10" to 6" x 9" Adaptor Kit

- Adapts aftermarket 6" x 9" to a 4" x 10" location in GM automobiles ■ Mounting hardware included ■ Mounts one pair of speakers

#60-615 \$1650 (kit)



5" x 7" and 6" x 8" Speaker Adaptor Kit

- Installs 6" x 9" speakers where depth allows
- Adapts 5" x 7" speaker locations in 1972-1989 Dodge, Plymouth, and Chrysler cars
- Adapts 6" x 8" speaker locations in 1976-1989 Ford, Mercury, and Lincoln cars ■ Fits 5" x 7" two hole speaker locations in 1974-1989 Toyota cars ■ Instructions and hardware included ■ Mounts one pair of speakers

#60-625 \$1450 (kit)

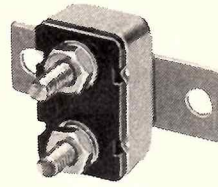


Extender Ring

- Used to install speakers in shallow compartments such as kickpanels, doors or rear panels ■ Works with 5 1/4" and 6" speakers ■ Available in 1/2" and 1" extensions
- Mounts one pair of speakers

1/2" #60-635 \$745 (kit)

1" #60-630 \$1175 (kit)



High Current Circuit Breakers

- Auto resetting circuit breakers ■ For use with 13.8VDC

Order #	Current	Order #	Current
60-485	15A	60-500	30A
60-490	20A	60-505	40A
60-495	25A	60-510	45A
\$295 (1-9)		\$245 (10-up)	

Low Current Circuit Breakers

- Auto resetting circuit breakers ■ For use up to 50V

Order #	Current	Order #	Current
60-515	.50A	60-535	1.5A
60-520	.70A	60-540	2A
60-525	.85A	60-545	2.5A
60-530	1A		
\$195 (1-9)		\$145 (10-up)	

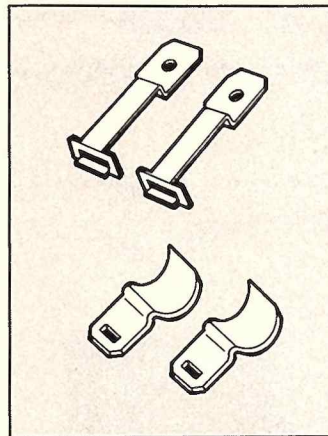


Fuse Taps

ATO Fuse Taps

- Clip onto ATO automotive fuses
- Great for car stereo installations
- Ten per package

#28-0700 78¢ (1-9 pkgs.) 70¢ (10-24 pkgs.) 63¢ (25 pkgs.-up)



AGC Fuse Taps

- Fit around AGC fuses ■ Great for car stereo installations ■ 300 per package

#28-854 \$730 (1-9 pkgs.) \$650 (10 pkgs.-up)

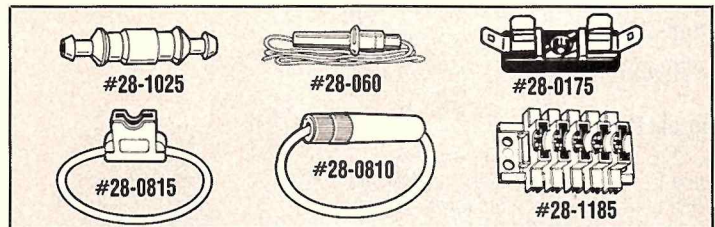
Car Stereo Power Connector

- Universal plug ■ Comes with 3A fuse and fuse holder

#27-300 \$120 (ea.)



Fuse Holders



Order #	Fuse Size	Rated Voltage	Rated Current	Note	Price (1-9)	Price (10-49)	Price (50-up)
28-060	1 1/4" x 1/4"	32VDC	3A	3A fuse included	.49	.39	.25
28-0175	1 1/4" x 1/4"	250VAC	10A	Fuse block	1.05	.85	.65
28-0810	1 1/4" x 1/4"	32VDC	20A	Screw type	.99	.79	.69
28-0815	—	32VDC	30A	ATO in-line	1.49	1.29	1.19
28-1025	1/4" Universal	32VDC	30A	Crimp type	.85	.77	.65
28-1185	—	32VDC	30A	Five gang fuse block	4.45	4.25	3.95



AUTO ELECTRONICS



Adjustable Line Output Converter

- Converts speaker outputs to line level outputs
- Allows any car stereo to drive amplifiers having line level inputs
- Features full DC isolation and adjustable attenuation
- 10ohm impedance

#60-480 \$8⁹⁵_(ea.)



Floating Ground Adaptor

- Adapts to all floating (bridged) output units to products requiring common grounded signal inputs
- For use with high power radios: 15-25W per channel
- Not for use between amplifier and equalizer or amplifier and speakers
- Hardware and instructions included

#60-260 \$5⁹⁵₍₁₋₃₎ \$5³⁵_(4-up)

Deluxe In-Line Noise Filter

- Line level filter isolates ground between amp and radio
- Eliminates noise due to signal path ground loops
- Gold plated RCA connectors

#60-405 \$8⁹⁵_(ea.)

In-Line Noise Filter

- Filters noise out of multi-unit car stereo applications
- For use between head unit and amp/equalizer
- RCA input and output connections

#60-345 \$3⁸⁸_(ea.)

Noise Chokes

- Filters out engine noise through power lead
- Use with car stereos, power amps, CBs, marine radios, tape players

#28-116 (3A) \$2¹⁵₍₁₋₉₎ \$1⁹⁰_(10-up)

#60-395 (6A) \$2²⁵₍₁₋₉₎ \$1⁷⁵_(10-up)

Noise Suppressors

- For use with car stereos and CBs to eliminate noise
- LC circuit provides superior noise suppression

#60-390 (3A) \$2⁷⁵_(ea.)

#60-400 (10A) \$4⁹⁵_(ea.)

Toroid Noise Choke

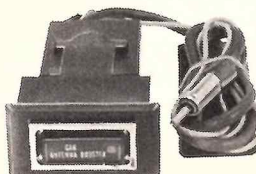
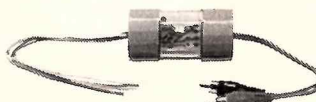
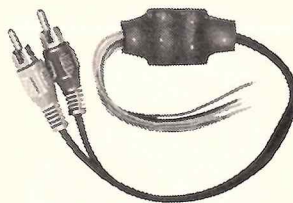
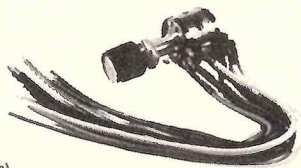
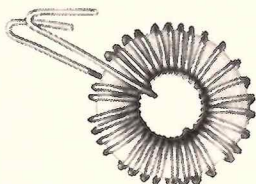
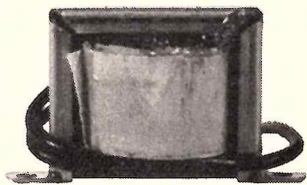
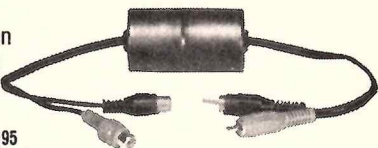
- 12 gauge enameled copper wire wound on a 1 3/4" O.D. core
- Filters out EMI and RF frequencies
- For high power car stereo applications up to 40A

#28-0315 \$9⁶⁵_(ea.)

50 Watt Fader Control

- High power car stereo faders
- Power rating: 50W nominal, 100W peak

#60-160 \$13⁵⁰₍₁₋₉₎ \$11⁵⁰_(10-up)



Line Output Converter

- Converts speaker level outputs to line level
- Converts common ground or floating ground outputs to low level outputs to drive "pre-amp" type EQs and amps

#60-410 \$2⁹⁵_(ea.)

Line Output Converter/Balancer

- Same as #60-410; plus it has an adjustable level for perfect channel balancing

#60-415 \$3⁸⁰_(ea.)

Deluxe AM/FM Car Antenna Booster

- Power/bypass switch
- For in-dash or underdash mounting
- 12VDC

#61-110 \$10⁹⁵₍₁₋₉₎ \$9⁹⁵_(10-up)

Car Antenna Dummy Load

- Used to troubleshoot noisy car stereo installations
- Plug into car stereo's antenna jack, and if noise is eliminated; the antenna is the noise source
- Standard Motorola plug
- 50ohm



#27-1105 95¢₍₁₋₉₎ 75¢_(10-up)

Antenna Extensions for Auto Radio

- Motorola type plug and jack
- Made of high quality shielded cable

20" Length
#60-135 \$1¹⁰₍₁₋₉₎ 95¢_(10-up)

8' Length
#60-190 \$2⁷⁰₍₁₋₉₎ \$2⁴⁰_(10-up)

Mini-Motorola Adaptor Cords

- For use in new GM cars
- Adapts equipment using the new Mini-Motorola to equipment using standard Motorola connectors
- 7" length

Mini Plug—Standard Socket

#61-135

Mini Socket—Standard Plug
#61-140 \$2²⁵₍₁₋₉₎ \$1⁹⁵_(10-up)

Antenna Plug

- Standard Motorola type auto antenna plug
- Minimum ten

#27-150
52¢₍₁₀₋₄₉₎ 40¢₍₅₀₋₉₉₎ 33¢₍₁₀₀₋₄₉₉₎

Antenna Jack

- Standard Motorola type auto antenna jack
- Minimum ten

#27-155
54¢₍₁₀₋₄₉₎ 42¢₍₅₀₋₉₉₎ 34¢₍₁₀₀₋₄₉₉₎



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



Solderless Terminal Kit

- Contains 175 of the most popular insulated terminals and connectors, with 18 different styles (rings, spades, butt connectors, male and female disconnects)
- Made of heavy-duty clear plastic
- Includes a crimping tool
- Dimensions: 4" (W) x 8" (L) x 1 1/4" (D)

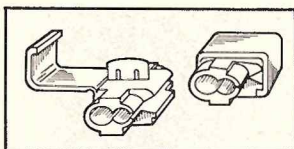
#28-690 \$10⁰⁰_(1-9 kits) \$9⁴⁵_(10 kits-up)



Tap Splice

- 18-14 gauge
- 100 per package

#28-193 \$9²⁵_(1-9 pkgs.) \$8⁸⁰_(10 pkgs.-up)



Hook and Loop Fastener

- Hook and loop fastener with adhesive back
- Perfect for attaching accessories to almost any surface
- Once attached, accessory can be removed quickly and easily
- Black
- 3' x 1" strip

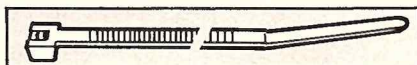
#21-720 \$3⁵⁰₍₁₋₉₎ \$2⁹⁵₍₁₀₋₂₄₎ \$2⁶⁵₍₂₅₋₄₉₎



Tyton Fasteners

Standard Cable Ties

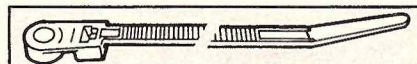
- 100 per bag



Order #	Length	Color	Tensile Strength	Bundle Size	Price (1-3)	Price (4-up)
21-1320	4"	Natural	18 lbs.	3/4"	\$2.50	\$1.90
21-1325	4"	Black	30 lbs.	3/4"	2.50	1.90
21-1330	6"	Natural	30 lbs.	1 1/4"	3.65	2.90
21-1335	6"	Black	30 lbs.	1 1/4"	3.65	2.90
21-1340	8"	Natural	30 lbs.	2"	4.95	3.95
21-1345	8"	Black	30 lbs.	2"	4.95	3.95
21-1350	11 1/4"	Natural	30 lbs.	3"	8.50	7.25
21-1355	11 1/4"	Black	30 lbs.	3"	8.50	7.25
21-1360	14 1/2"	Natural	30 lbs.	4"	9.90	8.25
21-1365	14 1/2"	Black	30 lbs.	4"	9.90	8.25

Mounting Cable Ties

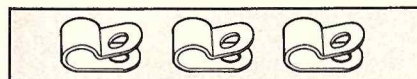
- Natural color
- 100 per bag



Order #	Length	Tensile Strength	Bundle Size	Price (1-3)	Price (4-up)
21-1400	4 1/4"	18 lbs.	3/4"	\$6.50	\$5.50
21-1405	6 1/4"	30 lbs.	1 1/4"	6.95	5.85
21-1410	8 1/2"	50 lbs.	1 3/4"	9.45	7.85

Cable Clamps

- Natural color
- 50 per bag

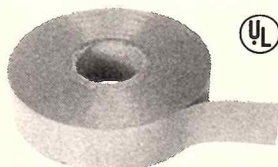


Order #	Size	Price (1-3)	Price (4-up)
21-1515	1/4"	\$2.75	\$2.25
21-1520	3/8"	2.95	2.45
21-1525	1/2"	3.05	2.50
21-1530	3/4"	3.95	3.30
21-1535	1"	4.95	4.25

TENMA™ Electrician's Tape

- Many uses
- PVC insulating tape
- 8 mil x 3/4"
- 60' roll
- Black
- UL approved

#21-090
95¢₍₁₋₉₎ 75¢₍₁₀₋₂₄₎ 67¢₍₂₅₋₄₉₎



Four-Way Flat Connector

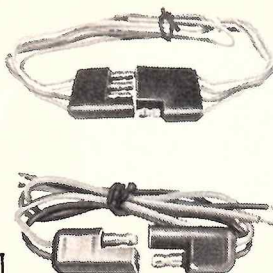
- Keyed for correct hook-up every time
- 8" leads
- Ideal for trailer light harness
- Color-coded leads

#27-620
\$3⁹⁰₍₁₋₉₎ \$3¹⁶₍₁₀₋₄₉₎ \$2⁵⁶₍₅₀₋₉₉₎

Two-Way Flat Connector

- 8" color-coded leads
- Keyed for correct hook-up every time

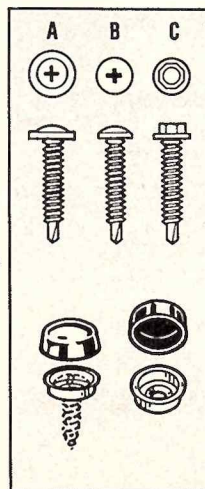
#27-615
\$2⁰⁴₍₁₋₉₎ \$1⁶⁷₍₁₀₋₄₉₎ \$1³²₍₅₀₋₉₉₎



#8 x 1" Self-Tapping Screws

- 100 per bag

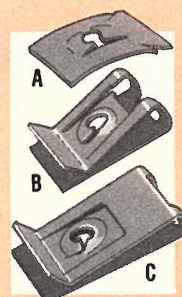
Fig.	Order #	Type
A	28-1150	Phillips truss head
B	28-1145	Phillips pan head
C	28-1140	Hex washer (chrome)
\$3 ⁹⁵ _(1-9 bags)		\$3 ⁷⁵ _(10 bags-up)



Camouflage Screw Caps

- Covers #8 screw heads for a neater installation
- Available in four colors
- 100 per package

Black	Brown
#28-1115	#28-1120
Gray	Tan
#28-1125	#28-1130
\$9 ⁹⁵ _(1-4 pkgs.)	\$8 ⁹⁵ _(5 pkgs.-up)



Speed Clips

- Fits #8 screws
- Available in three styles flat, short and long
- 100 per package



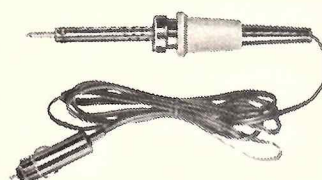
Fig.	Order#	Style	Price (1-9)	Price (10-up)
A	28-1060	Flat	\$4.25	\$4.00
B	28-1065	Short	5.25	5.00
C	28-1070	Long	5.75	5.50

TENMA™

12 Volt Soldering Iron

- This iron is specially designed for the auto sound installer
- Fast heat-up and recovery heating element
- 7', 18 gauge cord with 12V cigarette lighter plug

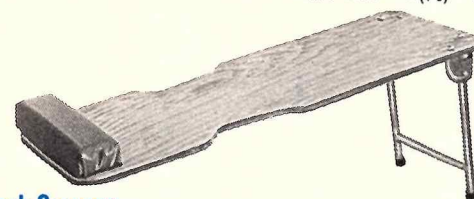
#21-780 \$5⁹⁰₍₁₋₉₎ \$5¹⁵₍₁₀₋₂₄₎ \$4⁶⁰₍₂₅₋₄₉₎



Under Dash Creeper

- Creeper has folding legs that lock into place
- Makes working under dash comfortable and easy
- Dimensions: 12" (W) x 36" (L)

#21-1225 \$29⁹⁵₍₁₋₄₎ \$28¹⁵₍₅₋₉₎ \$25³⁵₍₁₀₋₂₄₎





AUTO ELECTRONICS



Anti-Theft Radio Cabinet

■ Allows radio to be easily replaced in dash ■ Fits both standard shaft radios and flat nose DIN radios ■ Comes with carrying handle ■ Includes memory back-up to preserve station presets while radio is removed ■ For radios up to 7 1/8" (W) x 2" (H) x 6 1/2" (D) in size ■ 16 pin connections

#60-465.....\$19⁹⁵₍₁₋₃₎.....\$17⁵⁰_(4-up)



Universal Car Stereo Installation Kit

■ For shaft and flat-front radios ■ Specially designed for Chrysler cars (1975-84), Ford cars (1979-84) and GM cars (1982-84) ■ Kit contains: Housing, full complement of fixed and adjustable brackets and fasteners with complete mounting instructions

#60-320.....\$10¹⁰_(kit)

Metal Back Strap

■ Used by auto installers for securing radios ■ 9" long

#60-580.....50¢₍₁₋₉₎.....40¢_(10-up)

Split Loom Tubing

■ Used to protect and hide automobile electrical wiring ■ Black ■ 30' per package

Order #	Size (I.D.)	Price (1-9 pkgs) (10 pkgs-up)
28-1100	1/4"	\$4.95 \$4.50
28-1105	3/8"	5.95 5.50
28-1110	1/2"	6.95 6.50

Amplifier Installation Kit

■ Includes all you need to install a car amplifier ■ Kit contains: 25' of red 8AWG oxygen-free heavy-duty copper wire, 5' of black 10AWG copper wire, 10' of orange 12AWG copper wire, 20' RCA to RCA patch cord, 10' of 8AWG dual speaker wire, 10' of split loom tubing, 12 wire ties, and a roll of electrical tape

#60-555.....\$29⁹⁵_(kit)

Car Stereo Shaft Nuts

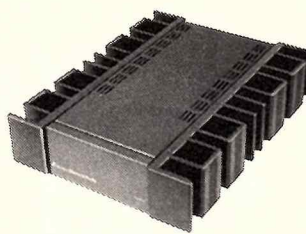
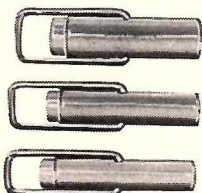
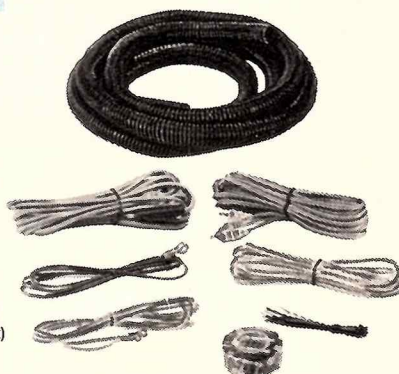
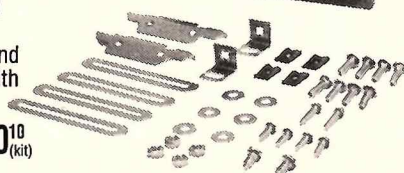
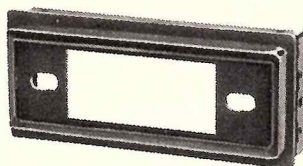
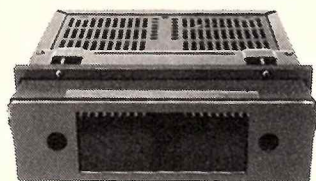
■ Replacement nuts for volume and tuning shafts ■ 100 per bag

#28-0580.....\$3⁸⁰_(bag)

Volume Box Wrenches

■ Set of three box wrenches for removing shaft nuts on car stereos ■ 9mm, 10mm, 11mm, 12mm, 13mm and 14mm wrenches ■ Packaged in a clear vinyl pouch

#22-905.....\$19⁵⁰_(1-3 sets).....\$18⁵⁰_(4 sets-up)



MITSUBISHI Car Amplifier

■ Mitsubishi Diamond series car stereo ■ RCA line level inputs for universal application ■ DIN input for use with other Mitsubishi equipment ■ Power output: 65 W/channel maximum (4ohm), 40W/channel 1% THD ■ Frequency response: 20Hz-50KHz ■ Input impedance: 10Kohm ■ Dimensions: 7" (W) x 2" (H) x 9 1/16" (D)

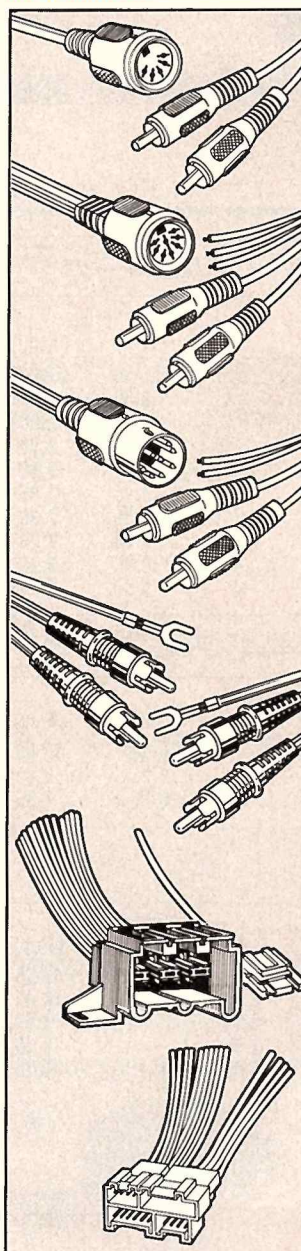
#58-180.....\$119⁰⁰_(ea.)

GM Type Car Battery Tap

■ For side mount batteries ■ Accessory leads can be connected easily ■ Made of corrosion resistant brass

#60-340.....\$3⁷⁵_(ea.)

Interconnects



Alpine 5 Pin DIN to RCA Type

■ 5 pin female DIN connector to two RCA plugs ■ 16 1/2' length

#60-350.....\$4⁹⁵_(ea.)

Pioneer 8 Pin DIN Type

■ 8 pin DIN connector to two gold RCA plugs with turn on, memory and antenna power leads ■ 18" length

#60-385.....\$4⁵⁰_(ea.)

Kenwood 8 Pin DIN Type

■ 8 pin DIN connector to two gold RCA plugs with turn on power lead ■ 18" long ■ Available with either male or female DIN connector

Male

#60-370

Female

#60-375.....\$4⁵⁰_(ea.)

Patch Cables with Auxiliary Lead

■ Gold plated RCA connectors ■ Auxiliary lead can be used as remote turn-on lead for amps, or as extra ground lead to eliminate ground loops.

10' Cable

#60-560.....\$3⁹⁵₍₁₋₉₎.....\$3⁵⁵_(10-up)

15' Cable

#60-565.....\$4⁹⁵₍₁₋₉₎.....\$4⁵⁵_(10-up)

GM Wiring Harness

■ Plug into stock radio harness ■ Power, memory, and 4 speaker hook-up ■ 12 pin plug ■ Allows quick identification and connection to stock wiring ■ Used in 1978-1990 GM cars

#60-640.....\$8¹⁵_(ea.)

GM Mini Wiring Harness

■ Plug into stock radio harness ■ Power, memory, and 4 speaker hook-up ■ 21 pin plug ■ Allows quick identification and connection to stock wiring ■ Used in 1987-1990 GM cars

#60-645.....\$7⁴⁵_(ea.)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491

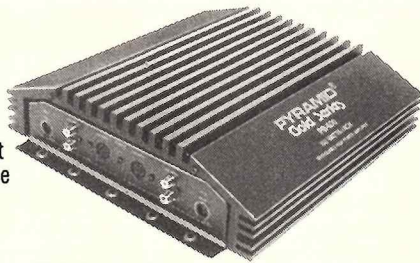


PYRAMID® Gold Series Four Channel Bridgeable Amp

■ Adjustable input sensitivity from 100mV-1V ■ Overload, short circuit and thermal protection ■ Compatible with common or floating ground systems ■ Automatic on/off ■ High or low level inputs

Specifications: ■ Power requirements: 12VDC, negative ground ■ Distortion: .59% THD at 75W x 4 channels; .4% THD bridged at 300W x 2 channels ■ Frequency response: 20Hz-20KHz ■ Signal to noise ratio: More than 80dB ■ Current draw: 32A nominal, 46A maximum ■ Weight: 13 lbs. ■ Dimensions: 11" (W) x 2 3/4" (H) x 12 1/4" (D)

#60-460.....\$202⁹⁵(ea.)

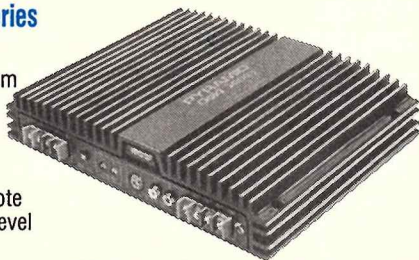


PYRAMID® Gold Series Class A Bridgeable Amp

■ Adjustable input sensitivity from 100mV-3V ■ Overload, short circuit, and thermal protection ■ Class A type amplifier ■ Compatible with common or floating ground systems ■ Remote automatic on/off ■ High or low level inputs ■ 8 pin DIN input

Specifications: ■ Power requirements: 12VDC, negative ground ■ Distortion: .05% at 100W per channel; .04% at 200W bridged ■ Frequency response: 20Hz-20KHz ■ Signal to noise ratio: More than 92dB ■ Dimensions: 10 1/2" (W) x 2" (H) x 8 1/2" (D)

#60-440.....\$149⁹⁵(ea.)

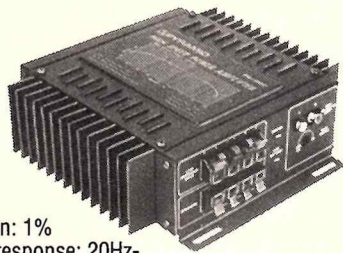


PYRAMID® Power Amplifier

■ Gain control ■ Automatic on/off ■ RCA input jacks ■ Display boxed with mounting hardware and instruction booklet

Specifications: ■ Power requirements: 11-16VDC negative ground ■ Distortion: 1% THD at 35W per channel ■ Frequency response: 20Hz-20KHz ■ Current draw: 15A ■ Signal to noise ratio: 70dB ■ Dimensions: 8" (W) x 2 3/4" (H) x 7 3/4" (D)

#60-060.....\$69⁹⁵(ea.)

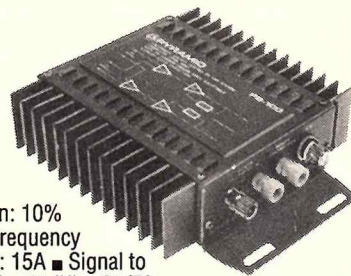


PYRAMID® Power Amplifier

■ Automatic on/off ■ RCA input jacks ■ Display boxed with mounting hardware and instruction booklet

Specifications: ■ Power requirements: 11-16VDC negative ground ■ Distortion: 10% THD at 30W per channel (at 2ohm) ■ Frequency response: 40Hz-30KHz ■ Current draw: 15A ■ Signal to noise ratio: 70dB ■ Dimensions: 8" (W) x 2" (H) x 6" (D)

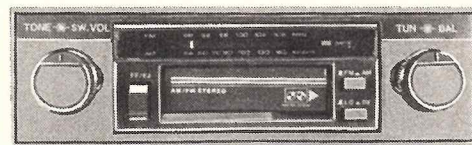
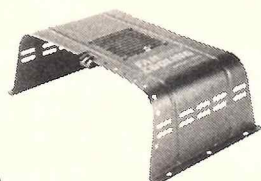
#60-330.....\$42⁹⁵(ea.)



PYRAMID® Gold Series Amplifier Cooling Fan

■ Mounts over amp and forces air through heat sinks ■ Maximum current draw 150mA ■ Fits amps as tall as 3" and as wide as 11"

#60-550.....\$32⁵⁰(ea.)



PYRAMID® Auto Stop Cassette Player with AM/FM Stereo

■ Phase III cassette player ■ AM/FM stereo ■ Local/distant switch ■ Auto stop at end of tape ■ Fast forward/eject button ■ Extremely simplified mechanism for years of trouble-free performance ■ Power requirements: 10-16VDC ■ Dimensions: 7" (W) x 2" (H) x 5 3/4" (D) ■ Nose piece dimensions: 4" (W) x 1 5/8" (H) ■ Mounting hardware and faceplate included

#60-310.....\$34⁵⁰(ea.)

PYRAMID® Gold Series Stereo Electronic Crossover Network

■ Used in bi-amp and tri-amp car stereo installations ■ Individual amplifier level controls for low, mid and high levels ■ Gold plated RCA input jacks ■ Designed for high and low impedance inputs ■ Low cut crossover from 50Hz-180Hz ■ Adjustable cut off frequency from 2KHz-6KHz in six steps

Specifications: ■ Slope characteristics: 12dB/octave ■ Signal to noise ratio: 80dB ■ Distortion: .025% ■ Power requirements: 11-16VDC, negative ground ■ Night illumination

#60-445.....\$57⁵⁰(ea.)

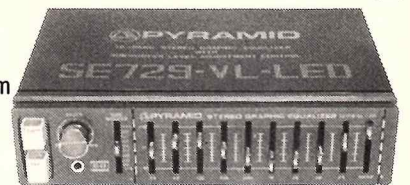


PYRAMID® Gold Series Passive Equalizer

■ Custom build your sound system with ten bands, simultaneous equalization of both channels ■ Designed for use with external amplifier(s) ■ Sub woofer level control allows control of a separate amplifier for sub woofers ■ CD input jack for portable CD player ■ Front and rear fader allows use of two amplifiers ■ Tone defeat switch ■ LED output display ■ Night illumination

Specifications: ■ Control range ± 10 dB ■ Frequency response: 20Hz-20KHz ■ Signal to noise ratio: Better than 85dB ■ Input impedance: 100ohm low, 10Kohm high ■ Control frequencies: 30, 60, 120, 250, 500, 1K, 2K, 4K, 8K, and 16KHz ■ Input sensitivity: 2V/low impedance, 200mV/high impedance ■ Power requirements: 11-16VDC, negative ground ■ Dimensions: 6 7/8" (W) x 1 7/8" (H) x 5 1/2" (D)

#60-450.....\$75¹⁵(ea.)



PYRAMID® Electronic Crossover Network

■ Designed to make single or multi-amp installations easy ■ Three inputs for high, mid and sub woofer ■ All three crossovers are adjustable from 32-400Hz with variable gain, and one crossover is also adjustable from 640-8000Hz ■ Sub woofer input can be switched 180° out of phase to compensate for time loss between the mid/high end drivers and the sub woofers, and a +12dB boost is available at 45Hz to create a smoother base response when the sub woofer is baffled in a cabinet ■ Includes remote on/off and 7 pin DIN output, and RCA input and output jacks

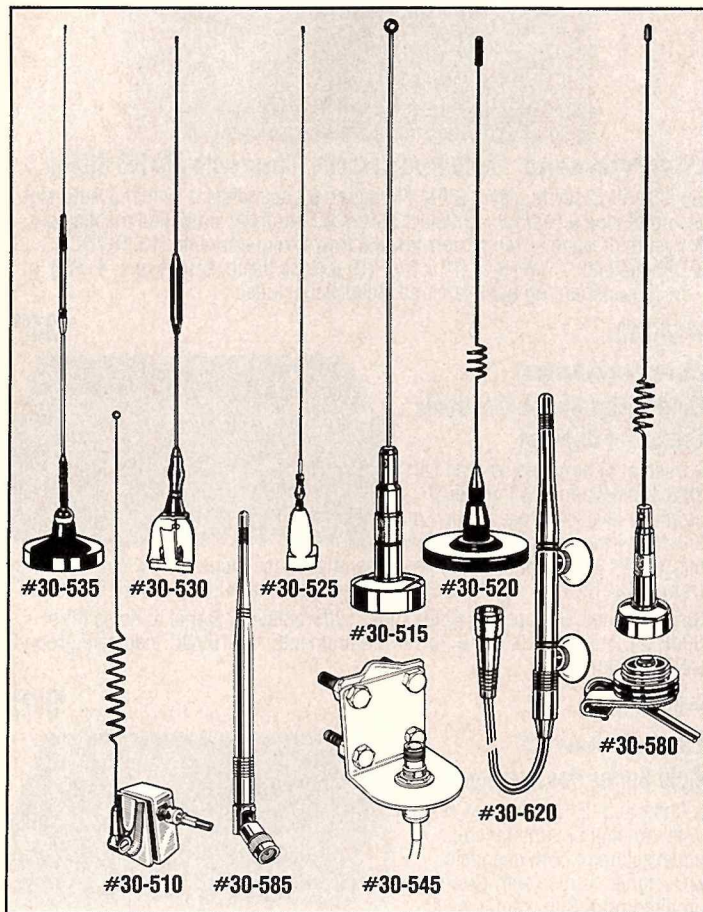
Specifications: ■ Slope characteristics: 12dB/octave ■ Signal to noise ratio: Greater than 98dB ■ Distortion: .02% THD ■ Power requirements: 13.8VDC, negative ground

#60-475.....\$74⁵⁰(ea.)





CB/CELLULAR ACCESSORIES



Magnetic Mount CB Antenna

■ Mounts easily and quickly ■ 180° adjustable ball base ■ Heavy duty spring prevents damage to antenna or car body ■ For 27MHz CB transceivers ■ 15' RG-58U cable with PL-259 connector ■ 24 1/2" (H) x 3 3/4" (Dia.) base

#30-535 \$12⁹⁵ (ea.)

Clip-On Gutter Mount CB Antenna

■ Center loaded ■ Coil spring base ■ Two section antenna ■ For 27MHz CB transceivers ■ 9'6" RG-58U cable with PL-259 connector ■ 30" (H)

#30-530 \$12⁹⁵ (ea.)

Replacement CB Mic Cord

■ 5 conductor, 24 gauge shielded cord ■ Coiled, stretches to 5' ■ Stripped and tinned on both ends

#24-625 \$1⁶⁰ (1-9) \$1⁴⁰ (10-up)

CB Mic Jack and Plugs

■ Solder type

Order #	Type	(1-9)	Price (10-49)	(50-99)
27-720	4 pin jack	\$1.99	\$1.63	\$1.29
27-730	5 pin jack	1.99	1.63	1.29
27-715	4 pin plug	2.06	1.69	1.33
27-725	5 pin plug	2.06	1.69	1.33

Clamshell Mount for Cellular Telephone

■ Mounts on any vehicle ■ Can adjust to any angle

#60-570 \$4⁰⁰ (1-9) \$3⁵⁰ (10-up)

Trunk Mount CB Antenna

■ Clamps on to lip of trunk or hatchback ■ No holes needed ■ Base loaded ■ Excellent performance on all 40 CB channels ■ Detachable mast ■ 17' coaxial cable with PL-259 connector ■ 38 1/2" (H)

#30-525 \$12⁹⁵ (ea.)

Cellular Telephone Antenna

■ For permanent installation ■ Detachable mast ■ 15' low-loss RG-58U cable with TNC connector ■ Black finish ■ Frequency: 821-896MHz ■ VSWR: 1.9 to 1 or better ■ 3dB gain ■ 10" (H) x 1 1/2" (Dia.) base

#30-515 \$17⁹⁵ (ea.)

Magnetic Mount Cellular Telephone Antenna

■ Magnetic base mounts easily and quickly ■ Detachable mast ■ 15' low-loss RG-58U cable with TNC connector ■ Black finish ■ Frequency: 821-896MHz ■ VSWR: 1.9 to 1 or better ■ 3dB Gain ■ 14 3/4" (H) x 3" (Dia.) base

#30-520 \$17⁹⁵ (ea.)

Trunk Lip Cellular Antenna

■ Allows trunk lid installation without drilling holes ■ 3dB gain ■ 17' cable and TNC crimp type connector for custom installation ■ 806-866MHz ■ Black

#30-580 \$34⁹⁵ (ea.)

Glass Mount Cellular Telephone Antenna

■ Installs directly on glass ■ No need to drill holes ■ Black finish ■ 15' low-loss RG-58U cable with TNC connectors included ■ Extra mini UHF connector included ■ Frequency: 821-896MHz ■ VSWR: 1.9 to 1 or better ■ 3dB gain ■ 14 3/4" length

#30-510 \$29⁹⁵ (ea.)

Swivel Rubber Duck Antenna

■ For portable cellular phones ■ Screws onto cellular antenna base ■ Gold plated pin ■ Swivel base ■ Can be used with #30-545 ■ Male TNC connector ■ Black ■ 9" length

#30-585 \$19⁹⁵ (ea.)

Mirror Mount Cellular Antenna Base

■ Use with detachable cellular antennas ■ Four-bolt clamp attaches base to truck mirror ■ Chrome finish ■ 9' RG-58 low-loss cable ■ Female TNC connector on mount ■ Male TNC connector on end of cable ■ Made in USA

#30-545 \$39⁹⁵ (ea.)

Cellular Suction Cup Antenna

■ Extends the range of portable cellular phones in temporary installations ■ Attaches quickly and securely ■ 15' cord

#30-620 \$19⁹⁵ (ea.)



Adjustable Cellular Telephone Mounts

■ Made of aircraft grade aluminum ■ Standard four hole base fits all phones ■ Available in three heights

#60-585 (4") \$21⁰⁰ (ea.)

#60-590 (6") \$25⁵⁰ (ea.)

#60-595 (8") \$29⁹⁵ (ea.)

Flexible Mount for Cellular Telephone

■ Gooseneck type mount with cupped base ■ 8" length

#60-575 \$14⁹⁵ (ea.)

Hands Free Microphone for Cellular Telephone

■ Fits Audiotel, AT&T, Mobira and many more ■ This microphone is for use with a built-in microphone driver ■ 3.5mm plug ■ 12' cord length

#60-600 \$6⁹⁵ (ea.)



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



MAGNADYNE® Auto Alarm System

- Self-contained siren with ear piercing yelp sound
- Automatically armed/disarmed by car ignition switch ■ 12-15 second entry and 60 second exit delay
- Automatic reset of three minutes ■ Display boxed with siren, hood, trunk, master and panic switches

#60-130.....\$34⁹⁵_(ea.)

Superguard Automobile Paging Alarm

- This compact alarm will warn you of theft or vandalism by means of a powerful 4W transmitter, and a small, pocket-size personal paging receiver
- Piezo sensor and N/O switches trigger the RF transmitter ■ The unit utilizes existing radio or CB antenna ■ Built-in antenna lifter wire for cars equipped with power antennas

#60-225.....\$59⁸⁰₍₁₋₃₎.....\$49⁹⁵_(4-up)

Motion Detector

- Can be used as a sensing accessory to a N/C or N/O input of existing auto burglar alarm ■ Triggers alarm or sounds horn when vehicle is jacked up, hit, tilted or towed away ■ Adjusting screw allows for convenient adjustment of detector's sensitivity
- Hardware and instructions included

#60-250.....\$6⁹⁵₍₁₋₃₎.....\$5⁹⁵_(4-up)

Pin Switches

- For use with alarm systems ■ Accepts .156" diameter male bullet connector

Fig.	Order #	Length	Description	Price
A	26-535	2"	Standard	\$.65
B	26-540	2 ⁵ / ₈ "	Long	.65
C	26-545	2 ¹ / ₂ "	Right angle	.69
D	26-550	2 ⁵ / ₈ "	Nylon tipped	.65

Flashing LED

- Prewired 5mm LED in metal housing ■ 36" red and black lead wires ■ Use for arming indicator or in dummy alarms ■ 12VDC

#25-460.....\$1⁹⁵_(ea.)

Heavy Duty Flasher

- 12V flasher for autos ■ Exact replacement for many vehicles made after 1955 ■ Perfect flasher for use with car alarm systems

#60-425.....\$1²⁹_(ea.)

12 Volt Relays

- Bosch type tab mount relay ■ Great for car stereo, alarm and many other applications ■ Contacts rated to 30A ■ Available in SPST or SPDT types

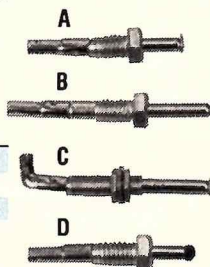
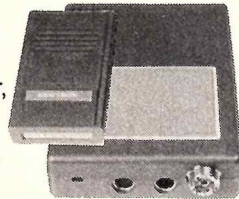
#26-525 (SPST 4 pin).....\$3¹⁵_(ea.)

#26-530 (SPDT 5 pin).....\$3⁹⁵_(ea.)

Relay Socket

- Bosch type ■ Prewired for all applications including ignition kills ■ Two 24" 14 gauge and two 24" 18 gauge leads ■ For SPST and SPDT relays ■ To be used with #25-525 and #26-530 relays

#60-430.....\$2²⁵_(ea.)



AUTOPAGE ((U)) Remote Arm/Disarm Security System

- RF remote control mini-transmitter arms and disarms system ■ Inputs for shock, motion and other sensors (not included) ■ Automatic reset ■ Display boxed with siren, two transmitters, control unit and wiring harness ■ Note: This is not a paging unit

#60-435.....\$99⁹⁵_(ea.)

AUTOPAGE ((U)) Portable Vehicle Security System

- RF remote control arms and disarms system ■ Can be switched between different cars ■ Powered by a car's cigarette lighter jack ■ One piece unit with built-in shock, motion sensors and 120dB siren ■ External siren output ■ Adjustable sensitivity level ■ Battery backup (9V not included) ■ Flashing LED to discourage thieves ■ Dimensions: 3" (W) x 5" (L) x 2³/₄" (D)

#60-610.....\$129⁹⁵_(ea.)

AUTOPAGE ((U)) Automobile Paging Alarm

- Compact 4W pager-receiver alerts you of an intrusion without alarming intruder; allowing you to notify the police while the crime is being committed
- Uses car antenna, but has output for CB antenna for extended range ■ Self-arming ■ Adjustable sensitivity
- Comes with two micro-resonance sensors, batteries for pager and all mounting hardware.

#60-605.....\$129⁹⁵_(ea.)

AUTOPAGE ((U)) Panic Adaptor

- This device lets you use your remote to sound alarm in case of emergency; such as an intruder following you to your car ■ For use with our #60-435 and #60-605 alarms and many other brands

#60-660.....\$29⁹⁵_(ea.)

AUTOPAGE ((U)) Door Lock Interface

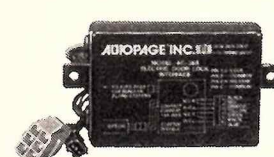
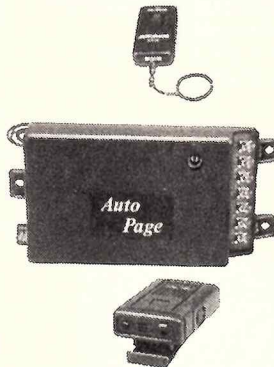
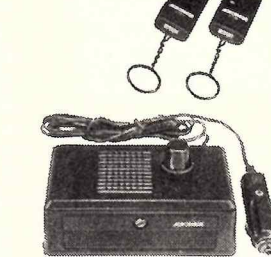
- Allows user to control car's automatic door locks by remote ■ For use with our #60-435 and #60-605 alarms and many other brands

#60-655.....\$39⁹⁵_(ea.)

AUTOPAGE ((U)) Super Intelligent Sensor (S.I.S.)

- The S.I.S. is a highly versatile dual response half effect transducer which detects glass breakage, shock and movement all within a single unit ■ It discriminates for more reliability than conventional motion sensors and helps eliminate false alarms
- For use with our #60-435, 60-605, 60-130 and 60-225 alarms

#60-650.....\$34⁹⁵_(ea.)





ALARM EQUIPMENT

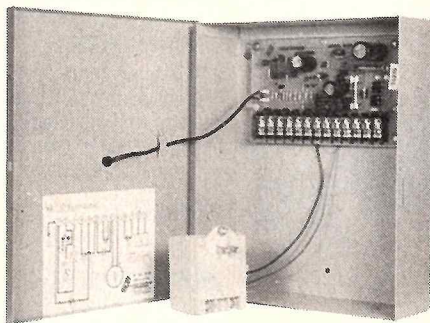
ALARM CONTROLS CORPORATION Alarm Control Panel

- Fail safe arming ■ Four wire remote stations ■ Bell cut-off and auto restore
- 24-hour latching panic circuit ■ Built-in charger for sealed lead acid battery
- Regulated voltage output ■ N/O and N/C loops
- Remote LED status of all loops ■ Dry contacts rated 5A ■ Protected against static and lightning

Specifications: ■ Power input: 12VAC, 20VA class 2, plug-in transformer (transformer supplied) ■ Standby: Rechargeable type, 12V sealed lead acid, gel type up to 4Ah capacity (battery not supplied). Dry cell type, 12V lantern battery, NEDA 926 (battery not supplied) ■ Outputs: Bell, 12VDC, 1.6A ■ Dry contacts: SPST, N/O (1 form a), contacts rated 5A at 28VDC or 115VAC ■ Regulated voltage: 13.8VDC, 300mA filtered ■ Remote LED: Control will accept up to three LED remote stations. Green loop LED, red arming LED ■ Bell cut-off/auto restore time: 15 minutes ■ Inputs: Closed circuit loop, maximum loop resistance 1000ohm, open circuit loop, 24 hour latching panic-open circuit, (reset from remote station) ■ Dimensions: 9" (W) x 11" (H) x 3" (D) ■ Weight: 6 lbs. ■ Mfg. #6126

#82-090

\$75⁵⁵
(ea.)



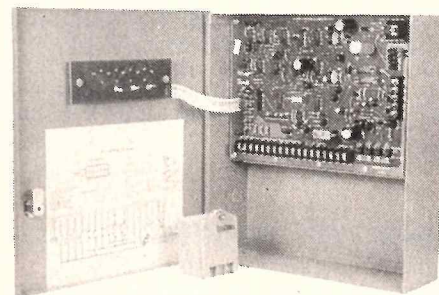
ALARM CONTROLS CORPORATION Three Zone Alarm Control Panel

- Built-in siren driver
- Adjustable entry/exit delay ■ Fail safe arming
- Adjustable siren cut-off time ■ Two supervised zones ■ Strobe output ■ 24 hour panic circuit ■ Built-in pulse stretcher ■ Zone bypass capability ■ Remote instant/delay switch ■ Zone expander arming output
- Regulated voltage output ■ Built-in battery charger
- Multiple remote stations ■ Momentary keyswitch arming ■ Dry contacts rated at 5A ■ Full static and lightning protection ■ Panel comes with cam-lock for added security

Specifications: ■ Power input: 14VAC, class 2, plug-in transformer (transformer supplied) ■ Standby: Rechargeable type, 12V sealed lead acid, gel type up to 8Ah capacity (battery not included). Dry cell type, 12V lantern battery, NEDA 926 (battery not supplied) ■ Output: Bell, 8ohm, 15W ■ Dry contacts: SPST, N/O, contacts rated 5A, at 28VDC or 115VAC ■ Pre-alarm: 12VDC for SC628 Sonalert or equivalent ■ Regulated voltage: 13.8VDC, 300mA filtered ■ Remote LEDs: Control will accept up to three LED remote stations ■ Secure LED: Green; armed LED: Red ■ Remote instant/delay switch: SPST (delay active when open) ■ Bell cut-off, auto restore time: Adjustable, 5, 8, 12, 15 minutes ■ Entry/exit time: Independently adjustable 0-60 seconds ■ Inputs: Delay zone, closed circuit; maximum loop resistance 1000ohm; Zone 1, closed or open circuit; Zone 2, closed or open circuit; panic circuit, 24 hour latching, N/O (resettable from remote station) ■ Special features: Remote alarm memory, zone bypassing, adjustable loop response time ■ Cabinet: 18 gauge C.R.S. beige textured finish, locked cabinet, K.O. for momentary keyswitch ■ Dimensions: 11³/₄" (W) x 13" (H) x 3¹/₂" (D) ■ Weight: 7 lbs. ■ Mfg. #6132

#82-250

\$154¹⁵
(ea.)



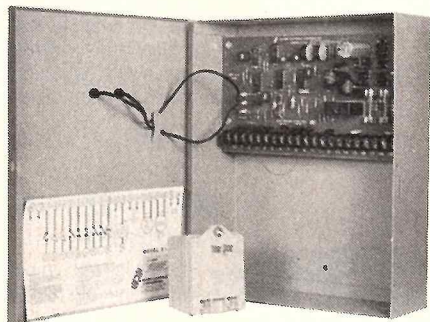
ALARM CONTROLS CORPORATION Alarm Control Panel with Entry/Exit Delay

- Adjustable entry/exit delay ■ Fail safe arming
- Bell cut-off and auto restore ■ 24-hour latching panic circuit ■ Four wire remotes ■ Built-in battery charger ■ Built-in pulse stretcher ■ Delay loop back-up circuit ■ Regulated voltage output ■ Dry contacts rated 5A ■ Remote instant/delay switch ■ Full static and lightning protection

Specifications: ■ Power input: 12VAC, class 2, plug-in transformer (transformer supplied) ■ Standby: Rechargeable type, 12V sealed lead acid, gel type up to 4Ah capacity (battery not supplied) ■ Dry cell type, 12V lantern battery, NEDA 926 (battery not supplied) ■ Output: Bell, 12VDC, 1.6A ■ Dry contacts: SPST, N/O, contacts rated 5A, at 28VDC or 115VAC ■ Pre-alarm: 12VDC for SC628 Sonalert or equivalent ■ Regulated voltage: 13.8VDC, 300mA filtered ■ Remote LEDs: Control will accept up to three LED remote stations ■ Secure LED: Green; armed LED: Red ■ Remote instant/delay switch: SPST (delay active when open) ■ Bell cut-off, auto restore time: 15 minutes ■ Entry/exit time: Independently adjustable 0-60 seconds ■ Inputs: Instant loop-closed circuit; maximum loop resistance 1000ohm; instant loop-open circuit; delay loop-closed circuit; 24 hour latching panic circuit-open circuit (resets from remote station) ■ Special feature: Delay loop back-up circuit. If delay loop is opened and is not reclosed when the control is armed, the N/O or N/C instant loop will trip the control. ■ Weight: 6 lbs. ■ Cabinet: 18 gauge steel beige textured finish, K.O. for optional cam lock, K.O. for cabinet mounted keyswitch, secure and armed LEDs, five K.O. ■ Dimensions: 9" (W) x 11" (H) x 3" (D) ■ Mfg. #6131

#82-095

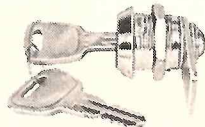
\$95⁰⁰
(ea.)



Cam Lock

- For use with alarm panels ■ Two keys provided ■ 3/4" mounting hole required

#26-520 ... \$4⁸⁰₍₁₋₉₎ ... \$4⁵⁰₍₁₀₋₄₉₎ ... \$4¹⁸_(50-up)



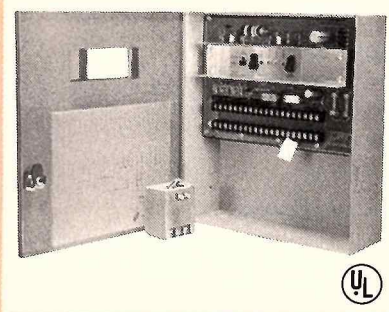
ALARM CONTROLS CORPORATION Combination Burglary and Fire Control Panel

- Designed to conform to U.L. standard 1023
- Adjustable entry/exit delay ■ Fail safe arming
- Adjustable digital bell cut-off ■ Built-in pulse stretcher ■ Supervised fire alarm circuit ■ Built-in battery charger ■ All inputs and outputs protected against lightning and static ■ Silent panic option ■ Built-in fire relay ■ Dry contacts rated at 5A ■ Remote LED status of all loops ■ Regulated voltage output ■ Momentary keyswitch arming

Specifications: ■ Power input: 12VAC, 20VA class two plug-in transformer (transformer included) ■ Standby: Rechargeable type, 12V sealed lead acid, gel type up to 4AH (battery not supplied) ■ Dry cell type, 12V lantern (not supplied) ■ Outputs: Bell, 12VDC, 1.25A ■ Dry contacts: SPST, N/O(1 form a), contacts rated at 5A at 30VDC or 240VAC ■ Regulated voltage: 13.8VDC, 300mA filtered ■ Bell cutoff time: Adjustable 5-50 minutes ■ Inputs: Instant and delay closed circuit loop; 1000ohm maximum loop resistance, open circuit loop, 24 hour latching and panic circuit ■ Dimensions: 11³/₄" (W) x 13" (H) x 3¹/₂" (D) ■ Weight: 7 lbs. ■ Mfg. #6130

#82-315

\$139⁹⁵
(ea.)

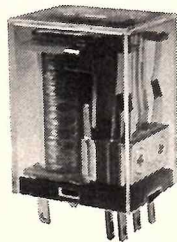




DPDT Relay

■ DPDT 12V relay ■ Perfect for alarm systems ■ Coil resistance 150ohm ■ 2A contact rating ■ Dimensions: 3/4" (W) x 1 1/4" (H) x 1" (D)

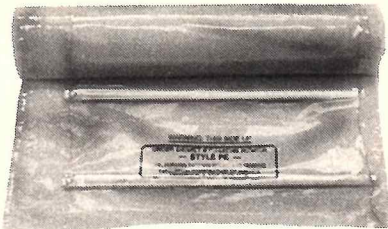
#26-100.....\$2⁸⁵₍₁₋₉₎.....\$3⁴⁵_(10-up)



Pressure Sensitive Mat

■ Fits under carpet or door mat and activates alarm when walked on ■ Each mat contains 16 pressure sensitive switches which are spaced 3 1/4" apart ■ Normally open contacts ■ May be cut into shorter lengths ■ Dimensions: 15" (W) x 60" (L)

#82-270.....\$27²⁵_(ea.)



Technacell[™] 12V, 4.5Ah Standby Battery

■ Ideal for use with alarm panels ■ Fully gelled electrolyte lead dioxide battery ■ High impact polystyrene case ■ 4.5Ah capacity with a 200mA load ■ Maximum discharge current: 60A ■ Quick disconnect spade type terminals ■ Dimensions: 5 1/8" (W) x 3 3/4" (H) x 2 5/8" (D)

#29-395.....\$26⁴⁴₍₁₋₄₎.....\$23⁸⁰_(5-up)

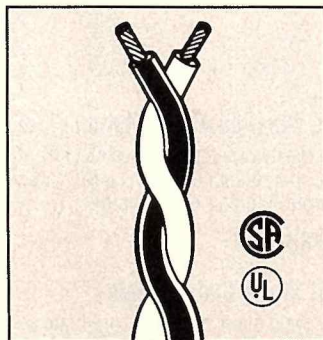


Twisted Pair Cable

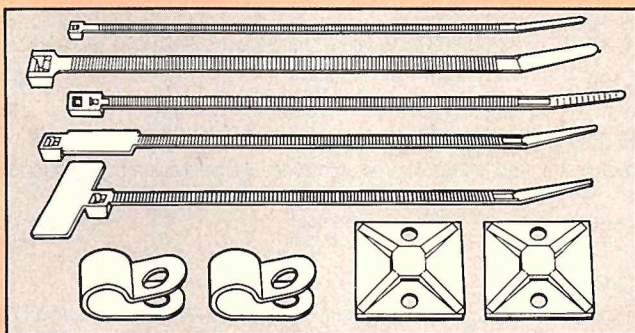
■ Used in control systems, burglar alarms, intercoms, sound and equipment interconnect applications, etc. ■ Twisted and color coded cable with PVC insulation ■ 18 gauge ■ Color coded black and white ■ Working voltage: 300V

50' Length
#24-910.....\$8⁵⁰₍₁₋₉₎.....\$7⁹⁵_(10-up)

100' Length
#24-913.....\$16⁵⁰₍₁₋₉₎.....\$15⁵⁰_(10-up)



SEE PAGE 47 FOR TYTON FASTENERS; TO FURTHER ENHANCE THE QUALITY OF YOUR ALARM WIRING INSTALLATION.

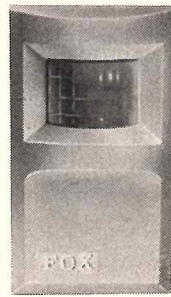


Detectors

Fox Passive Infrared Detector

■ The best PIR in its class ■ Ideal for most residential and commercial applications ■ Can be mounted on a wall or in a corner ■ 90° wide angle with a maximum coverage area of 40' x 40' ■ Easily converted to a pet-alley coverage pattern with an included snap-in plastic strip ■ Built-in cover N/C tamper switch ■ Switchable walk test LED ■ Supply voltage: 9-16VDC ■ Supply current: 20mA ■ To be used with alarm control panel ■ Soft white ■ Dimensions: 2 1/2" (W) x 4 3/8" (H) x 1 3/8" (D)

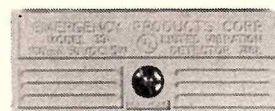
#82-285.....\$64⁹⁵₍₁₋₃₎.....\$59⁹⁵_(4-up)



Vibration Detector

■ Senses vibration in walls, ceilings, safes, etc. ■ Mounts in any position ■ Adjustable sensitivity ■ Silver contacts rated at 100mA, 50VDC, 5W ■ Tamper-proof cover ■ Closed circuit operation ■ Dimensions: 3/8" (W) x 2 1/4" (H) x 3/4" (D)

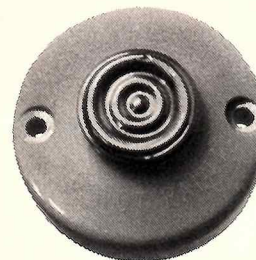
#82-180.....\$4⁸⁰₍₁₋₃₎.....\$4²⁵_(4-up)



Heat Detector

■ Detects rapid increase in temperature (triggered at 135°F) ■ 20" x 20" coverage ■ Normally open output ■ To be used with an alarm control panel

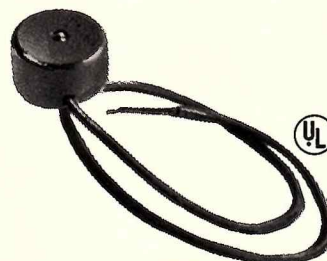
#82-235.....\$6⁵⁰₍₁₋₃₎.....\$5⁹⁵_(4-up)



Glass Breakage Detector

■ Protects up to 32 square feet of glass ■ Adhesive backing ■ Adjustable sensitivity ■ Must be used with pulse stretcher #82-040

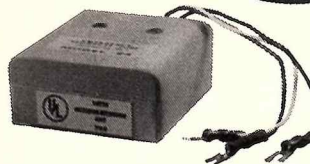
#82-020.....\$11³⁰₍₁₋₉₎.....\$10⁸⁰_(10-up)



Pulse Stretcher

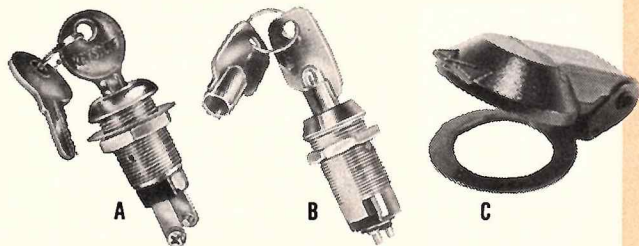
■ Pulse stretcher converts high speed break from detector into one second pulse for protective circuit ■ Can use as many #82-020 detectors as desired on one pulse stretcher

#82-040.....\$18⁸⁵₍₁₋₉₎.....\$17⁵⁰_(10-up)



Podemos acomodar
nuestros clientes
de habla Hispana

Key Switches



A. Key Switch

■ Plate tumbler lock switch ■ 2.8A, 24VDC ■ 15A, 48VAC ■ Brass contact material ■ Screw terminal connection ■ SPST type ■ Two keys furnished ■ Key can be removed in either position ■ 3/4" mounting hole

#26-070 \$4.30 (1-9) \$3.95 (10-49) \$3.65 (50-up)

B. Momentary Contact Key Switch

■ 2.8A, 24VDC ■ 15A, 48VAC ■ Brass contacts ■ SPST type ■ Two keys furnished ■ Momentary action ■ 3/4" mounting hole ■ For use with #82-095 alarm panel on page 152

#26-500 \$5.15 (1-9) \$4.90 (10-49) \$4.60 (50-up)

C. Key Lock Cover

■ Weather resistant ■ Withstands extreme heat and cold ■ Durable metal construction ■ Use with #26-500 or #26-070 (above)

#26-505 \$1.26 (1-9) \$1.10 (10-49) 95¢ (50-up)

Magnetic Switches

Recessed Mount

■ 8" leads ■ Operating gaps: 1/2" pickup, 3/4" release ■ Side flanges snap off to fit narrow places ■ Normally closed ■ 1 1/2" x 3/8" x 3/4" flange

#82-050 \$2.35 (1-9) \$2.05 (10-up)

Overhead Garage Door Contacts

■ Rugged waterproof aluminum housing with 2' stainless steel protective cable SPST switches rated at 130V AC/DC ■ Normally closed ■ Universal mount; 2" pickup, 3" release

#82-030 \$14.95 (ea.)

Standard Type

■ For use on windows and doors as detectors for alarm systems ■ .5A at 20V AC/DC rating ■ Contains both NO/NC contacts

#82-010 \$2.85 (1-9) \$2.55 (10-up)

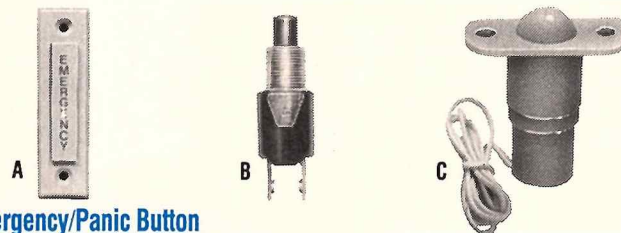
Mini Standard Type

■ For use on windows and doors as detectors for alarm systems ■ Normally closed operation ■ Attaches with two screws (not included) or with attached foam tape ■ Dimensions: 1/2" (W) x 1 1/4" (H) x 1/4" (D)

#82-015 \$2.95 (1-9) \$2.75 (10-up)



Alarm Switches



A. Emergency/Panic Button

■ Momentary doorbell-type button ■ Normally open operation ■ Surface screw mount ■ Button labeled "Emergency" ■ Dimensions: 3/4" (W) x 2 5/8" (H) x 1/2" (D)

#82-170 \$1.50 (1-3) \$1.20 (4-up)

B. Tamper Switch

■ Plunger tamper switch designed for recess or cabinet door mounting ■ Open circuit operation ■ Contacts rated at .75A at 125VAC ■ Screw terminals for wire hook-up ■ 1/2" mounting hole required

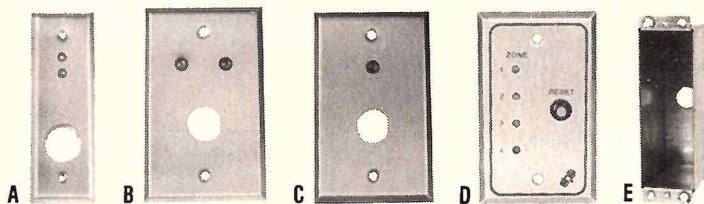
#82-160 \$2.25 (1-3) \$1.80 (4-up)

C. Ball Plunger Switch

■ Rolling ball depresses from any angle, perfect for window mounting or door jamb ■ Closed circuit operation ■ 12" leads ■ 3/4" recess button with screw mount flange ■ 1A contacts ■ White

#82-295 \$2.95 (1-3) \$2.75 (4-up)

Alarm Station Plates



A. Slimline Alarm Station Plate

■ Narrow, satin stainless steel front plate ■ Steel back plate ■ Red/green LEDs ■ Operates on 6-12VDC ■ N/C tamper switch prevents removal of plate from mounting box ■ Dimensions: 1 1/2" (W) x 4 1/2" (H)

#82-120 \$7.50 (1-3) \$6.95 (4-up)

B. Alarm Station Plate

■ Satin stainless steel front plate ■ Red/green LEDs ■ Operates on 6-12VDC ■ For use with #26-070 or #26-500 key switch ■ Dimensions: 2 3/4" (W) x 4 1/2" (H)

#82-135 \$6.50 (1-3) \$5.95 (4-up)

C. Alarm Station Plate

■ Stain stainless steel front plate ■ Red LED ■ Operates on 6-12VDC ■ For use with #26-070 or #26-500 key switch ■ Dimensions: 2 3/4" (W) x 4 1/2" (H)

#82-130 \$5.50 (1-3) \$4.95 (4-up)

D. Remote Annunciator Plate

■ Remotely monitors status of protected zones ■ Displays status of up to four zones

#82-255 \$13.50 (1-3) \$12.95 (4-up)

E. Mounting Box

■ Galvanized steel ■ Recessed mounting box for #82-120 slimline station plate

#82-125 \$7.50 (1-3) \$6.95 (4-up)



Foil and Foil Supplies

Foil Block

- Powerful self adhesive backing, resists effects of sun and moisture
- Positive circuit connections without solder
- Minimum ten

#82-220 50[¢]_(10-up)

Foil

- Extra thin window foil for superior sensitivity
- Self adhesive ■ 3/8" x .0015
- 1 lb. roll (approximately 330')
- Meets UL requirements

#82-215 \$8⁵⁰_(ea.)

Combination Take-Off and Contact Switch

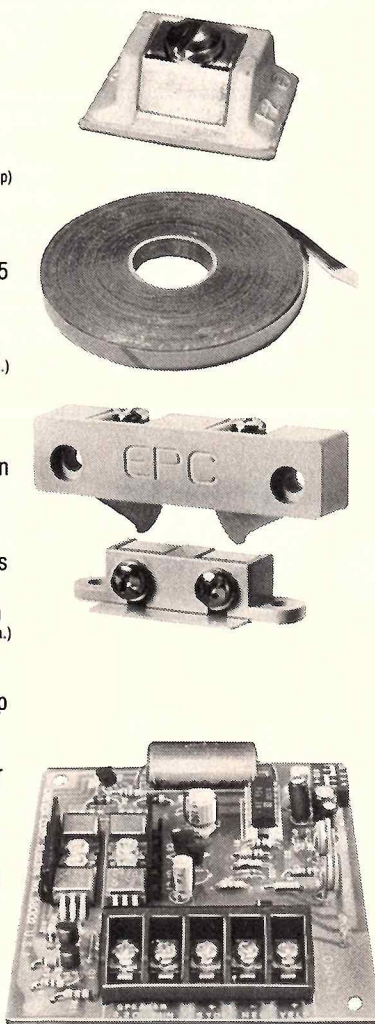
- Replaces contact and door cord when bringing foil or glass break detector circuits off movable windows
- Positive wiping action of contact points
- Spring loaded design provides strong tension for life of contact

#82-225 \$6⁵⁰_(ea.)

Variable Siren Driver

- Total independent control over sweep speed, mode and frequency
- Ideal driver for alarm systems, auto sirens and much more
- To be used with 4 or 8ohm horn speakers (page 141)

Specifications: ■ Operating voltage: 6-15VDC ■ Input channels: Two, steady and yelp ■ Triggering: Voltage step-up ■ Frequency adjustment: A trim pot adjusts the output frequency between lowest and highest swept frequency ■ Sweep mode adjustment: Rise and fall time of output can be varied by second trim pot ■ Sweep speed selection: 15 durations of cycle time may be selected by arranging the dip switch according to the table provided



Voltage	Current Drain/Output Power	
	8ohm Load	3.2ohm Load
6VDC	.5A/15W	1A/30W
12VDC	1A/25W	1.8A/50W
15VDC	1.2A/30W	2.5A/60W

#82-145 \$13⁹⁵_(ea.)

Piezoelectric Buzzers

- Operating voltage: 3-28VDC ■ Rated maximum current: 20mA ■ Sound output level: Minimum 85dB at 10cm



Order #	Resonant Freq. (KHz)	Hole to Hole Mounting Distance	Price	
			(1-9)	(10-up)
28-735	6.6 ± 0.6	28mm	\$1.33	\$1.15
28-740	4.7 ± 0.5	35mm	1.37	1.05
28-745	2.8 ± 0.5	50mm	1.55	1.40

Sirens

mg
Flush Mount Siren Speaker

- For use with alarm panels with built in siren driver #82-250 (page 152)
- Waterproof mylar speaker ■ 8ohm ■ 15W input
- Frequency response: 250Hz-5KHz
- White

#82-310 \$11⁹⁵₍₁₋₉₎ \$10⁹⁵_(10-up)

mg
Wall Mount Siren

- Self contained two tone siren
- Steady or yelp tone ■ 6-12VDC operation ■ Current: 520mA
- Sweep cycle: 3.5 cycles/second
- SPL level: 105dB ■ White

#82-305 \$19⁹⁵₍₁₋₉₎ \$15⁹⁵_(10-up)

Mini Blaster Siren

- Miniature piezo siren that produces a 108dB chirp
- Perfect for use with a car alarm system or cellular phone alert
- Operates on 12VDC
- Dimensions: 1 3/4" (W) x 1 1/2" (H) x 2 1/2" (D)

#82-275 \$11⁹⁵₍₁₋₉₎ \$10⁹⁵_(10-up)

Piezo Siren

- Operating voltage: 6-12VDC ■ Low current draw: 220mA at 12V; 100mA at 6V
- 120dB sound pressure level at 12V
- Weather resistant ■ Swivel mounting bracket ■ 12" long, color-coded, hook-up wire
- Weight: 7 oz.
- Dimensions: 3 1/2" (Dia) x 3" (D)

#82-140 \$10⁹⁵₍₁₋₉₎ \$10⁴⁰_(10-up)

5" Weather Resistant Siren

- Heavy duty construction ■ Swivel bracket ■ 120dB sound pressure at 12V
- Sweep cycle duration 1.5 cycles/second
- Frequency sweep 800Hz-2KHz ■ Display box ■ 12VDC/6VDC
- .5A at 12VDC ■ Weight: 1 lb.

#82-070 \$12⁹⁰₍₁₋₉₎ \$11⁶⁰_(10-up)

5" x 8" Weather Resistant Siren

- Dual-tone: Steady or yelp
- Heavy duty construction ■ 400Hz-2KHz frequency sweep
- Sound pressure: 120dB/m ■ Rated voltage: 6VDC/12VDC
- Display packaged ■ Weight: 3 lbs.

#82-060 \$25⁹⁵₍₁₋₉₎ \$20⁹⁵_(10-up)



TELEPHONE ACCESSORIES

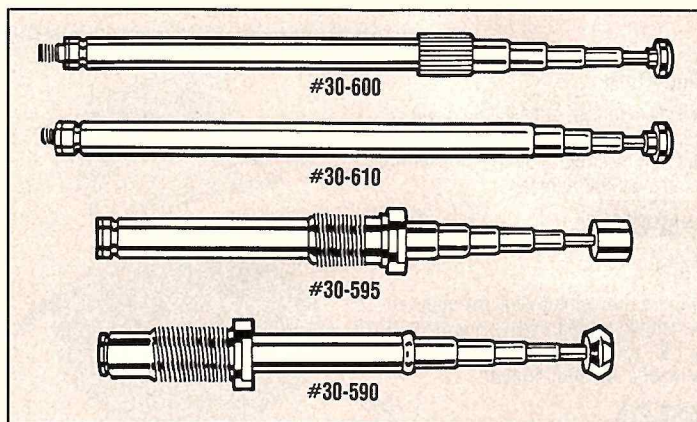
Cordless Telephone Handset Antennas



■ Exact replacement for popular makes and models ■ See cross reference for model and part number

Manufacturer	Model #	Order #
AT&T	4200, 4600, 5200, 5210, 5300, 5310, 5500	30-600
Bell South	9812, Vagabond	30-600
Cobra	CP110SA, CP115SA, CP120SA, CP130SA, CP140SA, CP205SA, CP301S, CP302S, CP310S, CP320S, CP355S, CP464S, CP470S, CP471S, CP472S, CP473S, CP474S	30-600
Extend-A-Phone	1000, 1150, 2100, 2101, 2600, 2700, 3000, 3100, 3101, 3102, 3300, 3500, 3800, 3810, 4000, 4100, 4102, 4500, 4800, 5000, 6000, 7000, 7500, 8050	30-600
Panasonic	KXT3815, KXT3821, KXT3835, KXT3845, KXT3800, KXT3805, KXT3807R, KXT3822, KXT3823, KXT3824, KXT3832, KXT4200	30-590 30-595
Radio Shack	43-552, 43-553, 43-533A, 43-560, 43-562, ET393, ET416	30-610 30-610
Uniden	XE200, XE300, XE400, XE500, XE700	30-610

\$4.95 (1-9) \$4.50 (10-up)



Cordless Telephone Batteries

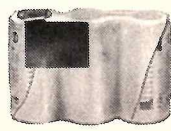
Repair those cordless telephones yourself and save time and money. MCM stocks replacement battery packs for most popular cordless phones. Use the convenient cross reference to find the correct battery.



#29-430



#29-675



#29-370



#29-360



#29-665



#29-670



#29-685

Order #	Voltage	mAh	Price (1-4)	(5-up)
29-430	3.6	150	\$8.87	\$7.98
29-675	3.6	170	11.50	10.50
29-370	3.6	250	8.82	7.94
29-360	3.6	250	11.50	10.35
29-665	3.6	250	9.95	8.95
29-670	3.6	250	11.50	10.50
29-685	3.6	250	10.50	9.75
29-750 NEW	3.6	280	11.00	9.95
29-330	3.6	500	8.50	7.65
29-690	4.8	250	13.50	12.50
29-695	4.8	250	13.95	13.25
29-700	4.8	250	13.50	12.50
29-420	4.8	250	10.56	9.50
29-425	4.8	250	10.56	9.50
29-440	4.8	250	10.56	9.50
29-680	4.8	450	15.00	13.95



#27-750



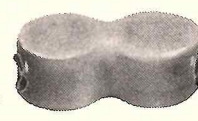
#29-330



#29-690



#29-695



#29-700



#29-420



#29-425



#29-440



#29-680

Manufacturer	Model #	Order #
A-Phone	KD-10	29-330
AT&T	Freedom 200, 250, 300, 740, 750, 1100, 1700	29-330
	Freedom 500, 550, 555, 1000, 1500, 1550, 3000, 3050, 3500, 5000	29-425
	Nomad 200, 250, 400	29-330
	Nomad 600, 800	29-430
	Nomad 700, 1000	29-425
Alaron	WT700	29-330
Audiovox	AT-11, AT-15, AT-20	29-330
Audiosonic	T-120	29-330
Bell Phone	31001, 3201	29-330
Cobra	15S, 99S, 100S/SA, 110S/SA, 115S/SA, 120S/SA, 130S/SA, 140S/SA, 200S, 205S/SA, 210S, 220S, 250S, 260S, 301S, 310S, 320S, 330S, 355S, 440S, 450S, 460S, 477S, 1105A, 4403, 4405S	29-330 29-420 29-685
	80S, 90, 91, 93, RP740S/SA, RP780S/SA	29-420
	CP4695, CP8521	29-330
Cosmo	3000	29-330
Elite	6060	29-330
	KP3637	29-430
Extend-A-Phone	BA300A	29-330
Fannon	GT150	29-420
	FCT200R, FCT2500	29-330

Manufacturer	Model #	Order #
Fine	KL700	29-330
G E	Voyager 1000, 7000	29-440
Go Phone	GF210	29-330
GPT	C7	29-430
GTE	3100	29-675
Hoyastar	Starmate	29-430
ITT	PC1600, PC1800	29-330
Kraco	KP6001-H, KP6002	29-330
Keyphone	6200DP	29-330
Keytronics	6100P, 9100P	29-330
MCE	700-1, 700-2, 700-3, 700-4, 700-5	29-330
Midland	2008	29-420
	80-207B	29-330
	80-210	29-425
Mura	MP400	29-330
	MP600, MP601, MP800	29-700
Nomad	4000	29-690
Pacer Phone	8510	29-425
Panasonic	800, 3821, 3831, KX-36A, KX-T3815, KX-T3815-A, KX-T3825, KX-T3842, KX-T3845, KX-T3880, VA7020	29-330
	KX-T3800, KX-T3805, KX-T3805-A, KX-T3805-B, KX-T3807, KX-T3822, KX-T3822-A, KX-T3822-B, KX-T3823, KX-T3832, KX-T3835	29-430
	KX-8036A, KX-T4200	29-665

Manufacturer	Model #	Order #
Panasonic	KX-A36A	29-370
(continued)	PQP25F301A	29-360
	3820, 3830DH, 3841	29-680
Phone Mate	4200, 4210	29-440
Pierre Cardin	AMB-9	29-330
Quasar	2100	29-330
Radio Shack	300, 330	29-425
	320, 350	29-330
Sanyo	TH500, 900, TH101S, TD2000, TTH5100, TH5200, CLT 6300	29-430
	M1000, TH1000S	29-440
Sony	SPP-50, SPP-60, SPP-80, SPP-90, SPP-S10	29-750
Sound Design	7890	29-330
Uniden	XE200, XE360, XE400	29-360
	254, 2600	29-370
	8300, 900, 1000, EX1100, 1500, 2000, 2100, 2101, 3000, 3100, 3101, 3102, 3201, 3500, 3800, 3810, 4000, 4101, 4112, 4500, 4800, EX7500	29-330
	XE200, XE300, XE360, XE400	29-670
	XE500, XE600, XE700	29-695
Universal	Tote & Talk	29-330
Weber	516, 584, WP555R, WP575	29-330
Walk & Talk	CP800	29-330
Zeta	510	29-425



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



Wall Plates

Flush Mount Jack

■ USOC RJ-11 type ■ Beige

#36-120 (4 Pin)

\$1.37 (1-9) \$1.27 (10-49) \$1.07 (50-up)

#36-685 (6 Pin)

\$1.95 (1-9) \$1.75 (10-49) \$1.55 (50-up)

Duplex Flush Mount Jack

■ Two jacks for connection of an extra phone, answering machine, etc. ■ Jacks can be connected together or used for two incoming lines ■ Beige

#36-250 (4 Pin)

\$2.40 (1-9) \$2.15 (10-49) \$1.95 (50-up)

#36-680 (6 Pin)

\$2.95 (1-9) \$2.75 (10-49) \$2.55 (50-up)

Flush Mount Protective Wall Jack

■ Protects cable from being pulled out of jack ■ 4 pin ■ USOC RJ-11 type ■ Beige

#36-495

\$1.95 (1-9) \$1.75 (10-49) \$1.60 (50-up)

Bell Co. Type Phone Mount

■ For easy mounting of Bell type wall phones ■ USOC RJ-11 type ■ Stainless steel cover

#36-490

\$3.80 (1-9) \$3.50 (10-49) \$3.10 (50-up)

Flush Mount 8 Pin Wall Plate

■ 8 pin ■ USOC RJ-45 type ■ For unkeyed plugs only ■ Beige

#36-670 With Shorting Bar

#36-675 Without Shorting Bar

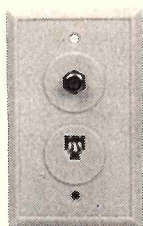
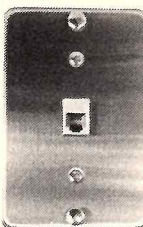
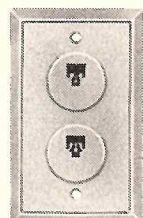
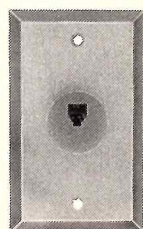
\$3.10 (1-9) \$2.75 (10-49) \$2.50 (50-up)

Flush Mount Wall Plate with "F" Connector

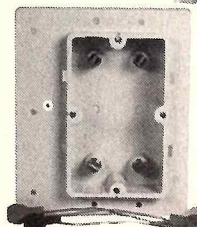
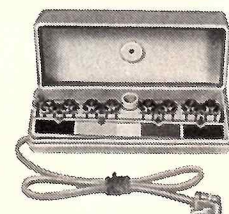
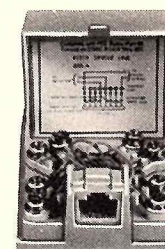
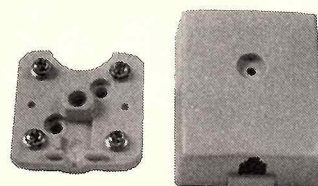
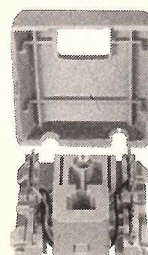
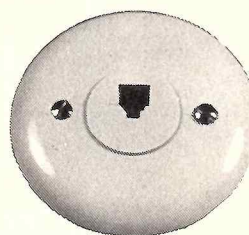
■ 4 pin ■ F-81 connector ■ Combines telephone and cable TV into one wall plate ■ USOC RJ-11 type ■ Beige

#36-650

\$2.40 (1-9) \$2.10 (10-49) \$1.95 (50-up)



Telephone Jacks



Circular Jack and Housing

■ For adding additional modular jacks or converting non-modular connecting blocks to modular ■ Mounts directly to existing bell metal boxes ■ 4 pin jack ■ USOC RJ-11 type ■ Beige

#36-125

\$2.00 (1-9) \$1.85 (10-49) \$1.60 (50-up)

4 Wire Telephone Jack

■ Low profile surface mount jack ■ Wire piercing punch down type connectors for fast hook-up ■ USOC RJ-11 ■ Beige

#36-545

\$1.55 (1-9) \$1.35 (10-49) \$1.20 (50-up)

Surface Mount 4 Wire Jack

■ Includes jack cover and mounting block ■ 4 pin ■ USOC RJ-11 type ■ Beige

#36-100

\$1.90 (1-9) \$1.60 (10-49) \$1.35 (50-up)

Surface Mount 6 Wire Jack

■ Includes jack cover and mount block ■ 6 pin ■ USOC RJ-12 through RJ-14 type ■ Beige

#36-103

\$2.40 (1-9) \$2.15 (10-49) \$1.95 (50-up)

Surface Mount 8 Wire Jack

■ 8 wire modular surface jack with short bar and key ■ USOC RJ-31 through RJ-38 X type ■ Beige

#36-105

\$2.35 (1-9) \$2.10 (10-49) \$1.85 (50-up)

Wiring Block

■ Screw terminal connectors block ■ Color-coded ■ Beige

#36-290 \$3.25 (ea.)

Prewire Box

■ Telephone pre-wire box ■ Easy-to-use, color-coded, snap-on connectors ■ Beige

#36-390

\$3.40 (1-9) \$2.90 (10-49) \$2.50 (50-up)

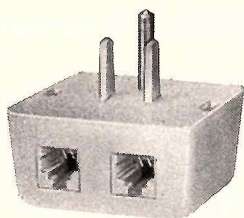


TELEPHONE ACCESSORIES

Fax Protector

■ Guards fax machines, answering machines, and any other equipment connected to telephone lines
■ Eliminates dangerous spikes and surges from lightning, etc. ■ Standard RJ-11 input and output jacks ■ Ground provided by standard 3 prong AC outlet

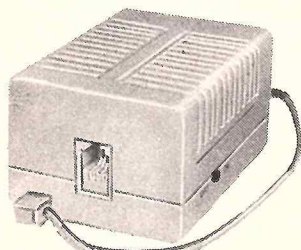
#36-550 \$12⁹⁵
(ea.)



Mechanical Bell

■ Sounds similar to a standard bell type phone ■ Easily connects via modular plug to any standard modular jack ■ Will work at any location in your system ■ Comes with line cord, plug, and jack ■ On-off switch

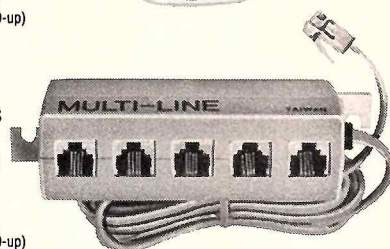
#36-455
\$11⁵⁰ \$9⁹⁵ \$8⁹⁵
(1-9) (10-49) (50-up)



5 to 1 Line Connector

■ Allows connection of up to five different single line products such as dialers, modems, answering machines, etc. to one telephone jack

#36-525
\$4⁸⁰ \$4⁴⁰ \$4²⁰
(1-9) (10-49) (50-up)



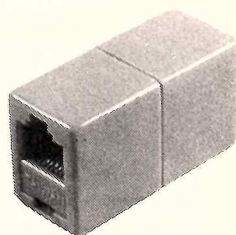
Inline Phone Coupler

■ Modular coupler female-female

#36-260 (4 Pin)
\$1⁴⁰ \$1²⁵ \$1¹⁰
(1-9) (10-49) (50-up)

#36-605 (6 Pin)
\$1⁸⁰ \$1⁶⁵ \$1⁵⁰
(1-9) (10-49) (50-up)

#36-610 (8 Pin)
\$1⁹⁵ \$1⁸⁰ \$1⁶⁵
(1-9) (10-49) (50-up)



"T" Adaptors

4x4 Pin Jack to 4 Pin Plug

#36-040
\$1⁹⁵ \$1⁷⁵ \$1⁵⁵
(1-9) (10-49) (50-up)

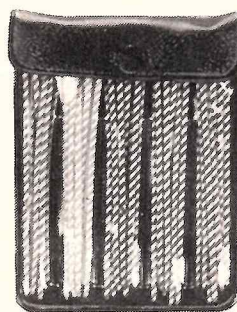
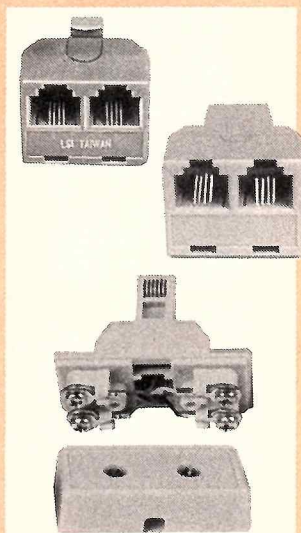
4x4 Pin Jack to 4 Pin Jack

#36-035
\$2²⁵ \$2⁰⁵ \$1⁸⁵
(1-9) (10-49) (50-up)

Modular to Screw Terminal

■ Standard 4 wire modular to screw type fitting

#36-430
\$2²⁰ \$1⁹⁵ \$1⁷⁵
(1-9) (10-49) (50-up)



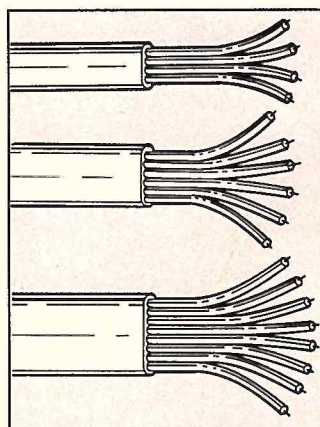
Tyton Telephone Cable Identification Pac

■ Offers an easier method of identifying finder groups in PIC cable through the use of striped cable ties
■ Designed to fit in shirt pocket
■ Contains 50 of the most commonly used cable ties ■ Ten each: Blue, orange, green, brown and slate all have white stripe

#21-1455 \$4⁵⁰ \$3⁹⁵
(1-3) (4-up)

Flat Telephone Extension Wire

■ Color coded stranded wire ■ Custom design your own modular extension cords to any length ■ Silver colored PVC jacket ■ 24 gauge



4 Conductor

■ 100' wire
#36-460 \$7⁸⁵ \$7⁵⁰
(1-9) (10-up)

■ 500' wire
#36-465 \$31⁵⁰ \$28¹⁰
(1-9) (10-up)

6 Conductor

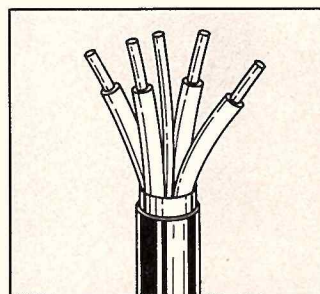
■ 100' wire
#36-615 \$9³⁰ \$8¹⁵
(1-9) (10-up)

■ 500' wire
#36-620 \$40²⁵ \$36⁶⁰
(1-9) (10-up)

8 Conductor

■ 100' wire
#36-625 \$12⁷⁵ \$11⁵⁰
(1-9) (10-up)

Station Wire

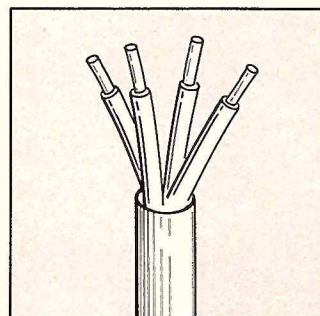


Shielded Station Wire with Drain

■ 4 conductor ■ 24 gauge solid wire
■ Color coded: Red, green, yellow and black ■ Foil shield ■ Tin drain wire
■ White jacket ■ Excellent for data communication use

100' Wire
#24-630 \$16⁹⁵ \$15⁵⁰
(1-9) (10-up)

500' Wire
#24-635 \$74²⁵ \$70⁹⁵
(1-9) (10-up)



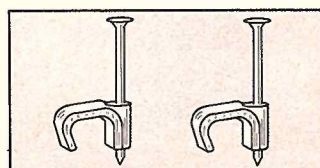
Telephone Station Wire

■ 4 conductor ■ 22 gauge solid wire
■ Color coded: Red, green, yellow and black ■ PVC/polyethylene jackets

50' Wire
#24-055 \$4⁵⁰ \$3⁹⁵
(1-9) (10-up)

100' Wire
#24-060 \$8⁰⁵ \$7⁵⁰
(1-9) (10-up)

500' Wire
#24-050 \$29⁹⁵ \$27⁵⁰
(1-9) (10-up)



Wire Clips

■ For use with standard 4 wire telephone cable ■ 100 per box

#36-420 \$3⁰⁵ \$2⁸⁰
(1-9 boxes) (10 boxes-up)



Modular Cords

A. Extension with Duplex Jack

- Plug-duplex jack ■ 4 pin USOC RJ-11 type
- 25' length

#36-060 \$3³⁵₍₁₋₉₎ \$3⁰⁵₍₁₀₋₄₉₎ \$2⁸⁵_(50-up)

B. Extension Cord Plug-Jack

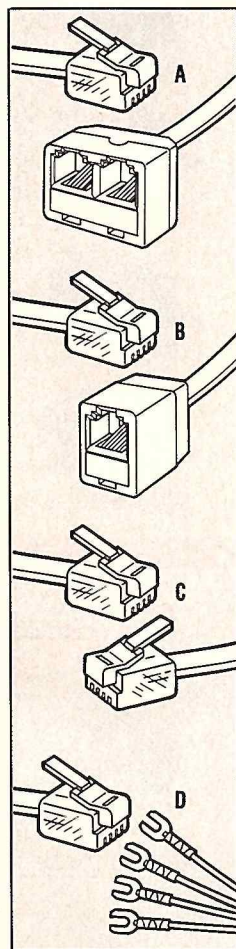
- Plug-jack ■ 4 pin USOC RJ-11 type ■ 25' length

#36-090 \$2⁵⁰₍₁₋₉₎ \$2³⁰₍₁₀₋₄₉₎ \$2⁰⁵_(50-up)

C. Replacement Cord

- Plug-plug ■ Sorry—no mixing of types for quantity pricing.

Order #	# of Conductors	Cord Length	Price (1-9)	Price (10-49)	Price (50-up)
36-050	4	14'	\$1.90	\$1.80	\$1.70
36-055	4	25'	2.50	2.20	2.00
36-600	6	14'	2.55	2.40	1.95
36-595	6	25'	3.70	3.45	2.90



D. Ivory Line Cord

- Spade-plug ■ 4 pin USOC RJ-11 type

7' Cord
#36-070 \$1¹⁵₍₁₋₉₎ \$1⁰⁵₍₁₀₋₄₉₎ 70¢_(50-up)

25' Cord
#36-075 \$1⁹⁵₍₁₋₉₎ \$1⁷⁵₍₁₀₋₄₉₎ \$1⁵⁰_(50-up)

Modular Plugs

- Modular outlet and handset plugs for prewire uses ■ Available in RJ-11 (standard), handset, RJ-12, and RJ-45 sizes ■ Ten per bag ■ Sorry—no mixing of types for quantity pricing

RJ-11 Standard Type

#36-400

Handset Type

#36-505 \$1⁶⁰_(1-9 bags) \$1⁴⁰_(10 bags-up)

RJ-12 Modular Plugs

- 6 pin

#36-635 \$2²⁵_(1-9 bags) \$1⁹⁵_(10 bags-up)

RJ-45 Modular Plug

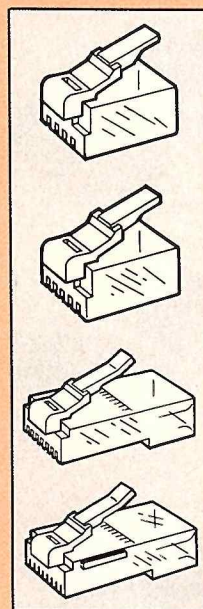
- 8 pin ■ Unkeyed type

#36-665 \$2⁹⁵_(1-9 bags) \$2⁷⁰_(10 bags-up)

RJ-45 Modular Plug

- 8 pin ■ Keyed type

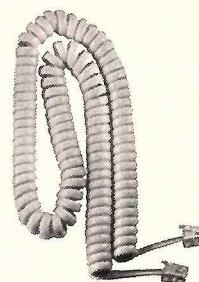
#36-690 \$2⁹⁵_(1-9 bags) \$2⁷⁰_(10 bags-up)



Telephone Pick-Up Coil with Suction Cup

- Record telephone conversations on any tape recorder with a 3.5mm microphone input

#36-010 \$1⁵⁰₍₁₋₉₎ \$1³⁵₍₁₀₋₉₉₎ \$1¹⁰_(100-up)



Modular Plug Handset Coiled Cord

- 12' ■ Sorry—no mixing of colors for quantity pricing

Beige	Black	White
#36-081	#36-080	#36-082
\$2 ⁴⁵ ₍₁₋₉₎	\$2 ¹⁵ ₍₁₀₋₄₉₎	\$1 ⁹⁵ _(50-up)

- 25' ■ Sorry—no mixing of colors for quantity pricing

Beige	Black	White
#36-084	#36-083	#36-085
\$3 ⁶⁰ ₍₁₋₉₎	\$3 ³⁰ ₍₁₀₋₄₉₎	\$2 ⁹⁵ _(50-up)

Modular Crimping Tools

- For installing modular plugs on flat extension wire ■ Available in RJ-11 (standard), handset and RJ-12 sizes ■ Sorry—no mixing of types for quantity pricing

RJ-11 Standard Type

#36-410

Handset Type

#36-510 \$5⁸⁵₍₁₋₉₎ \$4⁷⁵_(10-up)

RJ-12 Type

- 6 pin

#36-640 \$6⁶⁵₍₁₋₉₎ \$5⁶⁵_(10-up)

Heavy Duty Modular Crimping Tool

- For installing 4 and 6 pin modular phone plugs: RJ-11, RJ-12 and RJ-14 ■ Sturdy steel construction good for thousands of crimps ■ Built-in stripper removes outer insulation quickly ■ Cushioned grips

#36-645 \$12⁹⁵₍₁₋₉₎ \$11⁵⁰_(10-up)

RJ-45 Crimp Tool

- For installing 8 pin modular plugs (RJ-45)
- Crimps keyed or unkeyed RJ-45 connectors
- Steel construction good for thousands of crimps ■ Built-in cutter/stripper ■ Cushioned grips reduce fatigue

#36-660 \$17⁶⁵₍₁₋₉₎ \$15⁶⁵_(10-up)

TENMA UR Crimp Tool

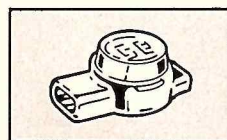
- For use with UR/telephone splicing connectors #28-0755 and B-wire connectors ■ High quality construction ■ Cushioned grips prevent fatigue and make crimping easier ■ Light spring action holds tool open ■ Built-in cutting blade

#22-960 \$9⁹⁵₍₁₋₃₎ \$8⁹⁵_(4-up)

UR Type Connectors

- Used extensively in telecommunication and alarm systems ■ Similar to Scotchlok™ UR connectors ■ UR connectors are filled with a special sealant to protect against moisture and prevent corrosion ■ Ten per package

#28-0755 \$2⁷⁰_(1-9 pkgs.) \$2¹⁵_(10 pkgs.-up)



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CALL TOLL FREE 1-800-543-4330



LEVITON ELECTRICAL ACCESSORIES



Leviton is an American company that has been committed to manufacturing excellence since 1906. Leviton parts are the number one choice of specifying engineers, architects, and electrical contractors because Leviton maintains the highest design and manufacturing standards in the industry. For original equipment and replacement parts that are recognized throughout the industry, order Leviton. All of these Leviton products are UL approved.



Weather Resistant Wallplate for GFI Receptacle

- Allows GFI receptacle #64-110 (below) to be used outside ■ Seals out moisture and dirt ■ Self-closing lid
- Made of heavy duty die-cast zinc

#64-115 \$5⁹⁵ (ea.)

Duplex GFI Receptacle

- Grounded receptacle with ground fault interrupt circuitry ■ GFI circuitry interrupts power if your body becomes a path to ground ■ Great for use in bathrooms, kitchens, and garages ■ Can be used outdoors when used with #64-115 (above) ■ Includes matching wallplate ■ 125VAC, 15A ■ Ivory

#64-110 \$12⁹⁵ (ea.)

Surge Suppressing Duplex Receptacle

- Stops voltage transients and provides RFI and EMI noise filtering ■ Indicator light shows suppressor is working
- 125V, 60Hz only ■ 15A ■ Ivory

#64-105 \$27⁰⁵ (ea.)

Surface Mount Dryer Receptacle

- 3 pole non-grounding range outlet with heavy gauge double-wipe copper alloy contacts ■ 30A, 125/250VAC
- Color coded terminals ■ Back and bottom concentric knockouts for 3/4" and 1" conduit ■ Accepts up to No. 4 copper, copper-clad, or aluminum conductors ■ All mounting hardware included

#64-125 \$4⁹⁹ (ea.)

Replacement Dryer Cord

- Replaces worn or broken dryer cords ■ 10 gauge grounded cord with right angle plug ■ Rated at 250V, 30A ■ 6' length

#64-130 \$7⁹⁵ (ea.)

Surface Mount Range Receptacle

- 3 pole non-grounding range outlet with heavy gauge double-wipe copper alloy contacts ■ 50A, 125/250VAC
- Color coded terminals ■ Knockouts for 3/4" and 1" conduit
- Accepts up to No. 4 copper, copper-clad, or aluminum conductors ■ All mounting hardware included

#64-120 \$4⁹⁹ (ea.)

Replacement Range Cord

- Replaces worn or broken oven and range cords ■ 6 gauge cord with 8 gauge ground ■ Right angle plug
- Rated at 250V, 50A ■ 6' length

#64-135 \$10⁹⁵ (ea.)

Air Conditioner Extension Cord

- 3 conductor extension cord for heavy duty use ■ 14 gauge extension cord rated at 15A ■ Grounded right angle plug ■ 9' length

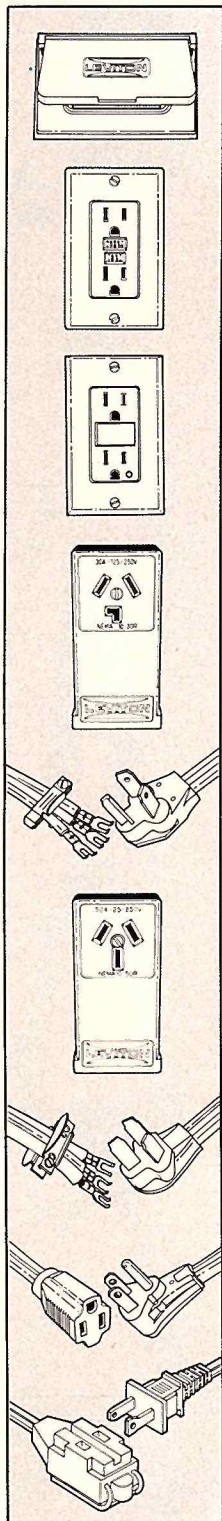
#64-140 \$5⁹⁵ (ea.)

Extension Cords

- 16 gauge power cord with 3 receptacle cube tap and safety shield ■ 125V, 13A

#64-145 (6') \$1⁹⁵ (1-9) \$1⁸⁰ (10-up)

#64-150 (12') \$2⁹⁰ (1-9) \$2⁷⁵ (10-up)



Replacement 2 Prong Plug

- Designed for general duty ■ Vinyl plug with brass contacts ■ For 18-14 gauge standard wire with a maximum diameter of .375" ■ Non-polarized ■ 125V, 15A

#64-030 \$1⁹⁵ (ea.)



Quick-Connect 2 Prong Plugs

- Wire-piercing contacts for easy attachment ■ Designed for light duty ■ Plastic plug with brass contacts ■ Non-polarized ■ 125V, 10A when used with 18 gauge wire
- Sold in pairs

#64-075 Ivory \$1⁹⁵ (pr.)
#64-080 Brown



Cube Tap

- Allows three plugs to work with one outlet ■ Made of vinyl ■ Rated at 15A, 125VAC ■ Polarized

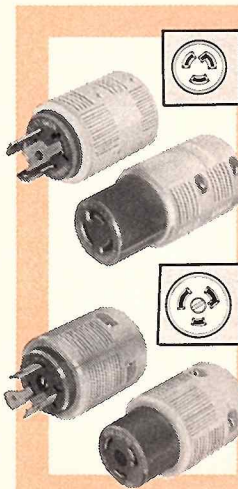
#64-040 \$1¹⁹ (ea.)



Replacement 3 Prong Plug

- Designed for general duty ■ Vinyl plug with brass contacts and cord clamp ■ For 18-14 gauge stranded wire with a maximum diameter of .437" ■ 125V, 15A

#64-035 \$1⁹⁵ (ea.)



Locking 3 Prong Plug/Receptacles

- Ideal for extension cords and high power equipment ■ Heavy duty design with dead-front construction ■ Both have rugged nylon housings, brass contacts and built-in cord clamps ■ For 16-3 gauge stranded cord with a diameter between .343"-.750" ■ 125V

Plug (15A) \$7⁴⁷ (ea.)

#64-090 \$7⁴⁷ (ea.)

Receptacle (15A) \$10⁹⁵ (ea.)

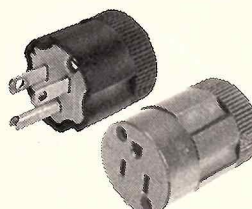
#64-085 \$10⁹⁵ (ea.)

Plug (20A) \$7⁹⁵ (ea.)

#64-100 \$7⁹⁵ (ea.)

Receptacle (20A) \$12⁹⁵ (ea.)

#64-095 \$12⁹⁵ (ea.)

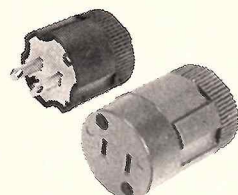


3 Prong Plug/Receptacle

- Designed for general duty ■ Both have rubber and plastic housings, brass contacts, and built-in cord clamps ■ For 18-14 gauge stranded cord with a diameter between .396"-.562" ■ 125V, 15A

#64-020 Plug \$2⁴⁵ (ea.)

#64-025 Receptacle \$5⁴⁵ (ea.)



2 Prong Plug/Receptacle

- Designed for general duty ■ Both have rubber and plastic housings, brass contacts, and built-in cord clamps ■ For 18-14 gauge stranded cord with a diameter between .296"-.562" ■ Non-polarized plug and polarized receptacle ■ 125V, 15A

#64-010 Plug \$2⁴⁵ (ea.)

#64-015 Receptacle \$2⁹⁵ (ea.)



Light Socket Adaptor

- Converts a standard light socket into a switched light socket with two unswitched 120VAC outlets ■ Polarized outlets

#64-045 \$2⁴⁵ (ea.)

SEE PAGE 161 FOR LEVITON SWITCHES



CALL TOLL FREE 1-800-543-4330

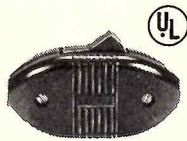
IN CANADA CALL TOLL FREE
1-800-824-9491



Heavy Duty Cord Switch

■ Made of phenolic plastic with bronze double-wipe contacts ■ End holes accept up to 1/4" cord ■ Rated at 10A, 125V or 5A, 250V

#64-070.....\$2⁹⁵_(ea.)



Miniature Cord Switches

■ No wire stripping necessary ■ For use with 18 gauge cord ■ Rated at 6A, 125V ■ Available in brown or ivory

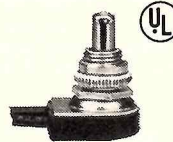
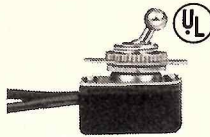
#64-060 Brown
#64-065 Ivory.....\$1²⁵_(ea.)



Appliance Toggle Switch

■ SPST toggle switch with lead wires ■ Rated at 6A, 125VAC and 3A, 250VAC ■ Requires 15/32" mounting hole

#64-050.....\$2⁹⁵_(ea.)

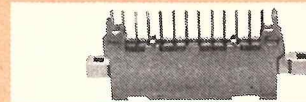


Appliance Push-Button Switch

■ SPST push-button switch with lead wires ■ Rated at 3A, 125VAC and 1A, 250VAC ■ Requires 3/8" mounting hole

#64-055.....\$2⁹⁵_(ea.)

Alps Slide Switches



■ Tape recorder or VCR slide switch for record/playback ■ Spring loaded ■ PC board mount

Order #	Alps #	Pin	Length (mm)	Price (1-9)	Price (10-up)
26-200	CL 104K	12	33.5	\$2.75	\$2.25
26-210	CL 106K	18	48.5	2.75	2.25
26-220	CL 109A	27	56	3.40	2.95
26-230	CL 109K	27	71	3.40	2.95

SEE PAGE 170 FOR Littelfuse BRAND SWITCHES

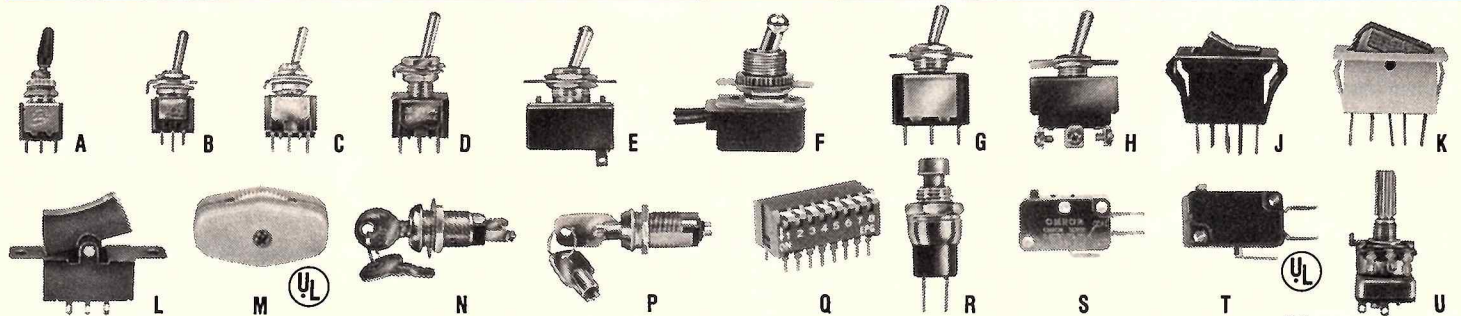


Fig.	Order #	Description	Type	Current	Voltage	(1-9)	Price (10-49)	(50-up)
Toggle								
A	26-575	Mini toggle, 1/8" mount	SPDT	2A	250V	\$1.00	\$.90	\$.80
B	26-120	Sub-mini toggle, 3/16" mount	DPDT	3A	125V	1.85	1.70	1.30
C	26-580	Micro toggle, 1/4" mount	DPDT	5A	125V	1.20	1.10	1.00
D	26-165	Micro center off toggle, 1/4" mount	DPDT	5A	125V	1.60	1.30	1.15
E	26-020	Standard toggle, 7/16" mount	SPST	3A	125V	.66	.59	.54
F	26-555	Pre-wired bat handle, 7/16" mount	SPST	6A	125V	1.85	1.65	1.40
G	26-030	Standard toggle, 7/16" mount	DPDT	3A	125V	.95	.85	.75
H	26-155	Heavy duty center off toggle, 3/4" mount	DPDT	6A	125V	1.60	1.30	1.20
Rocker								
J	26-510	Red illuminated rocker, 1" x 1/2" mount, black housing	SPST	12A	125V	1.57	1.47	1.30
K	26-515	Red illuminated rocker, 1 1/4" x 1/2" mount, white housing	SPST	10A	125V	1.55	1.45	1.35
L	26-050	Rocker switch, 1/2" x 1" mount	DPDT	4A	125V	1.40	1.05	.95
Power								
M	26-560	Self-piercing cord switch, white, UL listed	SPST	6A	125V	.65	.50	.40
M	26-565	Self-piercing cord switch, black, UL listed	SPST	6A	125V	.65	.50	.40
M	26-570	Self-piercing cord switch, coffee, UL listed	SPST	6A	125V	.59	.49	.39
Key								
N	26-070	Key switch on-off key removable in either position	SPST	15A	24VDC	4.30	3.95	3.65
P	26-500	Key switch momentary	N/O	15A	24VDC	5.15	4.90	4.60
Dip								
Q	26-460	DIP switch	8PST	—	—	1.60	1.35	1.05
Miscellaneous								
R	26-040	Sub-mini push button, N/O, 1/4" mount	N/O	2.5A	125V	.54	.49	.39
S	26-095	Micro switch	N/O, N/C	1A	125V	1.60	1.50	1.30
T	26-585	Micro switch, UL listed	N/O, N/C	15A	125V/250V	1.79	1.69	1.55
U	26-080	Mini control w/switch, 10Kohm	—	1A	125V	.89	.69	.55



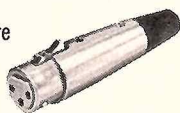
Switchcraft®

"Q-G" Audio Connectors

Switchcraft "Quick-Ground" connectors feature a separate "Ground Terminal" electrically integral, with connector shell. Ground continuity between mating plugs automatically accomplished through exclusive "Ground Contactors". Possible loss of insert screw is eliminated by new "Captive-Design" insert screw. Socket and pin assemblies utilize "wedge-action" to insure firm, reliable positioning in connector shell. Inserts are easily removable for wiring and soldering. High impact thermosetting plastic material insures long, reliable insert assembly life. Female connectors have latch lock feature to hold connectors firmly together. Plugs and receptacles are mechanically keyed for proper mating.

Female Cord Plugs

- Die-cast zinc body, dual pressure plates and keyed black neoprene relief bushing
- Pins are silver-plated, chromate-dipped brass
- Finish is satin-nickel
- Current ratings: 3 pole, 15A; 4 pole, 10A



Order #	Mfg. #	Contacts	Price	
			(1-9)	(10-up)
101-001	A3F	3	\$4.42	\$3.50
101-044	A4F	4	6.16	4.88

Male Cord Plugs

- Same features as female cord plugs
- 2 3/4" length



Order #	Mfg. #	Contacts	Price	
			(1-9)	(10-up)
101-002	A3M	3	\$3.76	\$2.98
101-045	A4M	4	4.53	3.58

Rectangular Flanged Male Receptacles

- Narrow rectangular flange units mount compact panel or chassis from front in 3/4" (D) hole
- Satin-nickel finish



Order #	Mfg. #	Contacts	Price	
			(1-9)	(10-up)
101-004	D3M	3	\$3.68	\$2.92
101-047	D4M	4	4.39	3.48

Rectangular Flanged Female Receptacles

- Mount front of panel or chassis in 1 1/16" (D) hole
- Satin-nickel finish



Order #	Mfg. #	Contacts	Price	
			(1-9)	(10-up)
101-003	D3F	3	\$4.97	\$3.94
101-046	D4F	4	7.63	6.04



Right Angle Male and Female Cord Plugs

- Right angle cord plugs for limited space connections
- Metal housing with satin nickel finish
- Three contacts

Order #	Mfg. #	Fig.	Male/Female	Price	
				(1-9)	(10-up)
101-005	R3F	A	Female	\$12.70	\$11.50
101-006	R3M	B	Male	11.70	10.50

Wall Plates with Male Receptacles

- Cover mounting screws included
- Three contacts
- Dimensions: 4 1/2" (H) x 2 3/4" (W)
- Mfg. #G3MS



#101-008

\$11⁹⁵ (1-9) \$10⁷⁰ (10-up)

Female Plug with On-Off Switch

- Connects directly to microphone
- Built-in subminiature slide switch is DPDT (2C) Rated 1A, 125VAC; 0.5A, 125VDC
- 3/4" (Dia.) x 3 1/16" (L)
- Die-cast zinc body, satin-nickel finish, and silver-plated Chrome dipped brass pins
- Three contacts
- Mfg. #T3F



#101-007

\$16⁹⁵ (1-9) \$15²⁰ (10-up)

Adaptors

- Coupler
- 3 pin A3M shielded, male audio connector at each end
- Mfg. #390



#101-048

\$10²⁰ (1-9) \$9²⁰ (10-up)

- Coupler
- 3 pin A3F shielded female audio connector at each end
- Mfg. #389



#101-009

\$12²⁰ (1-9) \$11²⁰ (10-up)

Impedance Matching Transformers

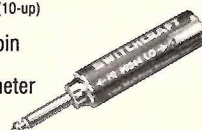
- Offers low-loss interconnection between high and low impedance equipment
- Lo Z: Switchcraft "Q-G" three contact female A3F
- Hi Z: Phone plug integral 2 conductor, 1/4" diameter finger
- Mfg. #9144



#101-057

\$37⁵⁰ (1-9) \$33⁵⁰ (10-up)

- Lo Z: Switchcraft "Q-G" 3 pin male A3M
- Hi Z: Phone plug integral 2 conductor, 1/4" diameter finger
- Mfg. #9244

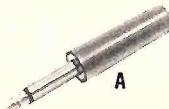


#101-058

\$37⁵⁰ (1-9) \$33⁵⁰ (10-up)

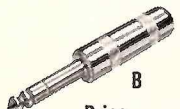
"Littel-Plug" 1/4" Phone Plugs

- Phone plugs fit standard 1/4" (6.35mm) phone jacks
- Solder terminal plugs have built-in cable clamp
- Shielded metal handles are nickel-plated brass or durable molded plastic: 1 1/16" (42.88mm) long x 1/2" (12.7mm) diameter
- 3" (7.54mm) minimum cable diameter



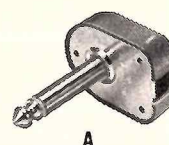
Mono

Order #	Mfg. #	Fig.	Handle	(1-9)	Price (10-up)
101-034	250	A	Black	\$2.37	\$1.88
101-035	280	B	Metal	2.97	2.35



Stereo

Order #	Mfg. #	Fig.	Handle	(1-9)	Price (10-up)
101-036	267	A	Black	\$3.50	\$2.77
101-037	297	B	Metal	4.21	3.33



1/4" Phone Plugs

- 1/4" phone plugs have flat, space saving handles
- Use for applications where conventional plugs would protrude

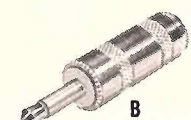
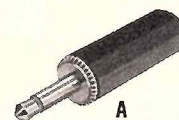
Order #	Mfg. #	Fig.	Handle	Price	
				(1-9)	(10-up)
101-038	227	A	Plastic Mono	\$2.84	\$2.25
101-039	238	B	Metal Stereo	4.34	3.44
101-012	228	B	Metal Mono	3.39	2.69

"Miti-Plug" Audio Plug

- Mono phone plug with full shielding
- Resistance to extremely rough usage for electrified audio instruments; such as amplifiers, synthesizers, power heads, speaker systems, etc. requiring high quality audio plugs
- Large cable clamps, cable flex relief spring and brass handle
- Mfg. #174S



#101-040 \$6⁷⁰ (1-9) \$5⁵⁰ (10-up)



"Tini-Plug" 3.5mm Miniature Phone Plugs

- Miniature 2 conductor phone plugs
- Only 1/3 the size of standard phone plugs
- 1 5/8" overall length
- Handles are plastic or nickel-plated brass
- 1/4" maximum cable diameter

Order #	Mfg. #	Fig.	Handle	Price	
				(1-9)	(10-up)
101-041	750	A	Black	\$2.03	\$1.60
101-042	780	B	Metal	2.95	2.33

"Micro-Plug" Subminiature Phone Plugs

- Subminiature 2 conductor phone plugs are only 1 1/8" (L) x 1/4" (O.D.)
- .097" diameter sleeve
- Accommodates cable up to 1/8" diameter
- Black handle
- Mfg. #850



#101-043 \$2⁰⁵ (1-9) \$1⁶³ (10-up)

"Silent-Plug" 1/4" Phone Plugs

- Mono 2 conductor plug features a circuit closing device that automatically shorts tip and sleeve together when plug is disconnected
- Eliminates hum pickup, pops and squeals from amplifier
- For high quality and professional applications
- Mfg. #181



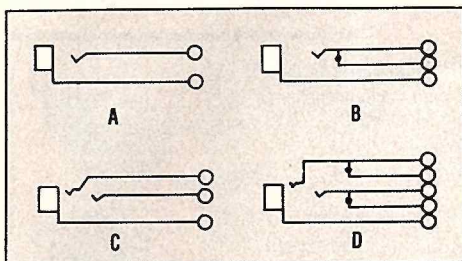
#101-062 \$9²⁵ (1-9) \$7⁹⁵ (10-up)

Microphone Connector

- Female connector with 5/8-27 threads is designed for use with single conductor microphone cable with 5/16" (7.14mm) minimum O.D.
- Mfg. #250/F



#101-063 \$3⁰⁰ (1-9) \$2⁵⁰ (10-up)



Little-Jax 1/4" Jacks

■ Quality phone jacks that mate with standard 1/4" plugs ■ "V" bend in tip spring firmly holds mating plug ■ Mounts in single 3/8" (9.52mm) hole, in panels up to 1/8" (3.96mm) thick



Order #	Mfg. #	Schematic	Price	
			(1-9)	(10-up)
101-015 Mono	11	A	\$1.47	\$1.17
101-013 Mono	12A	B	1.45	1.15
101-014 Stereo	12B	C	2.05	1.60
101-016 Stereo	14B	D	4.03	3.19

Hi-D Jax Phone Jacks

■ Compact phone jacks mate with standard 1/4" phone plugs ■ Molded box body protects integral silver-plated, nickel silver springs ■ Mount on 5/8" centers in single 3/8" hole; in panels up to 5/32" thick



Order #	Mfg. #	Schematic	Price	
			(1-9)	(10-up)
101-017 Mono	111	A	\$1.50	\$1.19
101-020 Mono	112A	B	1.45	1.15
101-018 Stereo	112B	C	1.47	1.17
101-019 Stereo	114B	D	2.00	1.58

"Tini-Jax" 3.5mm Miniature Phone Jacks

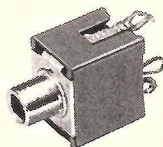
■ Mono phone jacks, approximately 1/3 the size of the Little-Jax jack ■ Mount in 1/4" diameter hole; in panels up to 1/8" thick



Order #	Mfg. #	Schematic	Price	
			(1-9)	(10-up)
101-024	41	A	\$1.29	\$1.02
101-025	42A	B	1.50	1.19

"Tini-D Jax" 3.5mm Miniature Phone Jack

■ Completely enclosed, molded phone jack ■ Mates with "Tini-Plug" ■ Has threaded bushing for conventional mounting ■ Terminals come straight out from rear for easy wiring ■ Mount on 3/8" centers in 1/4" diameter hole; in panels up to 1/8" thick ■ PC 142A, PC mount version



Order #	Mfg. #	Schematic	Price	
			(1-9)	(10-up)
101-026	142A	B	\$1.92	\$1.52
101-061	PC-142A	B	2.37	1.88

Micro-Jax 2.5mm Subminiature Phone Jack

■ Shunted, 2 conductor mono jack can be wired for open or closed-circuit operation ■ Fits 3/16" diameter hole; in panels to 3/32" thick ■ 1/25" the size of standard phone jacks



Order #	Mfg. #	Schematic	Price	
			(1-9)	(10-up)
101-027	TR-2A	B	\$1.82	\$1.44

Thick Panel Phone Jack

■ Mono phone jack with long threaded bushing ■ Mounts in single 15/32" diameter hole; in panels up to 1 1/4" thick ■ Solder lug terminals ■ Extra shielding virtually eliminates audio hum ■ Mfg. #151



#101-011		\$4 ⁹⁵ ₍₁₋₉₎		\$3 ⁹² _(10-up)
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Black Jack Cover

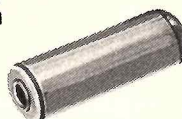
■ Handy, rugged, spring-loaded phone jack covers ■ Covers jack openings when phone plug is removed ■ Protects against dust and moisture ■ Use with standard 3/8"-32 threaded bushing type jacks ■ Mfg. #515



#101-023		\$5 ⁴⁵ ₍₁₋₉₎		\$4 ³¹ _(10-up)
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Extension 1/4" Phone Jacks

■ 2 and 3 conductor jacks mate with standard commercial phone plugs ■ Sturdy cable clamp strain relief ■ Molded black plastic handles, and a solder type terminal



Mono ■ Mfg. #88

#101-059		\$4 ²⁰ ₍₁₋₉₎		\$3 ³⁰ _(10-up)
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Stereo ■ Mfg. #838

#101-060		\$4 ⁷⁵ ₍₁₋₉₎		\$3 ⁹⁵ _(10-up)
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1/4" Extension Jax

■ For connection to cable ends, freeing them from the fixed mounting of a panel or chassis ■ The standard 1/4" jacks have nickel-plated body, sleeve, and shielded handle

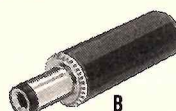


Mono ■ Mfg. #120

#101-021		\$5 ⁴⁵ ₍₁₋₉₎		\$4 ³¹ _(10-up)
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Stereo ■ Mfg. #1230

#101-022		\$6 ¹⁵ ₍₁₋₉₎		\$4 ⁸⁸ _(10-up)
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Power Jacks and Battery Charger Plugs

■ Power jacks have sleeve shunt spring which permits automatic switch-over from AC to DC (battery) operation when AC power plug is disconnected ■ Available in .08" or .10" center pin diameter

Power Jacks

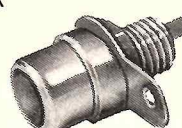
Order #	Fig.	Mfg. #	Pin Dia.	Price	
				(1-9)	(10-up)
101-030	A	712A	.10"	\$2.26	\$1.79
101-031	A	722A	.08"	2.26	1.79

Battery Charger Plugs

Order #	Fig.	Mfg. #	Pin Dia.	Price	
				(1-9)	(10-up)
101-032	B	760	.10"	\$2.26	\$1.79
101-033	B	S-760	.08"	2.37	1.88

Chassis Mount Phono (RCA) Jack

■ Mono, 2 conductor phono jack for front-of-panel mount; using hex nut (supplied) ■ Only 7/16" O.D., can be mounted on 1/2" centers ■ Has 1/4"-32 bushing, mounts in 1/4" diameter hole; in panels up to 1/4" thick ■ Mfg. #3501FP



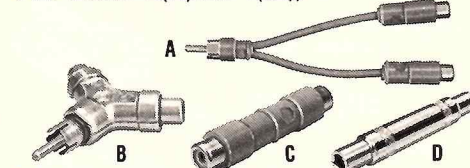
#101-029		92 [¢] ₍₁₋₉₎		73 [¢] _(10-up)
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Phono (RCA) Extension Jack

■ Mono, 2 conductor shielded in-line phone jack ■ Use on end of cable ■ Large, heavy duty cable ■ Removable handle ■ Durable bright nickel plate on body and handle ■ Mfg. #3503



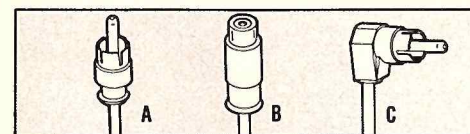
#101-028		\$2 ⁰⁰ ₍₁₋₉₎		\$1 ⁵⁸ _(10-up)
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Adaptors

■ Adaptors for interconnecting components that do not have mating jacks and/or plugs ■ Positive mating contacts ideal for Hi-Fi, phonographs, tuners, PA systems ■ Prevents resistive line losses ■ Nickel-plated finish for long life

Order #	Mfg. #	Fig.	Description	Price	
				(1-9)	(10-up)
101-050	330F1	A	Flexible Y-adaptor phono plug to two phono jacks	\$8.53	\$6.75
101-049	330F	B	Y-adaptor. Two phono jacks to phono plug	8.75	7.95
101-051	349A	C	Phono plug coupler mates with phono plug at each end	6.25	4.95
101-010	361A	D	Coupler 2 conductor phone jack at each end	7.50	6.50



Stereo Cables

■ Two shielded insulated cables inside a common gray plastic jacket ■ Provides two isolated channels for all stereo applications ■ Phono plugs are color coded

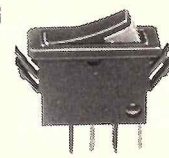
Order #	Mfg. #	Terminations	Length	Price	
				(1-9)	(10-up)
101-052	25FF25	A	3'	\$8.25	\$6.95
101-053	25FF82	A	10'	12.79	10.13
101-054	25FX25	A	6'	9.95	8.25
101-055	25FN25	A	10'	12.20	11.20

Right Angle Phono to Right Angle Phono Plug (Mono)

Order #	Mfg. #	Terminations	Length	Price	
				(1-9)	(10-up)
101-056	30AF30E	C	3'	\$4.16	\$3.29

Rocker Switches

■ Rocker switches snap into panel openings for new and retrofit/replacement applications ■ UL and CSA approved for switches ■ Provides up to 16A switching ■ Switches snap into 1 3/16" x 7/16" panel opening ■ Quick connect terminals



Order #	Mfg. #	Illuminated	Price	
			(1-9)	(10-up)
101-065	200B5NNR	No	\$2.61	\$2.06
101-064	200NB5ANKR	Yes (red)	3.68	2.92



CONNECTORS

"F" Type

"F" Type CATV

- Attached ferrule ■ For RG-59

- Minimum ten

#33-410

40¢₍₁₀₋₄₉₎ ... 29¢₍₅₀₋₉₉₎ ... 25¢₍₁₀₀₋₄₉₉₎

- Gold plated for low signal loss

- For RG-59 ■ Minimum ten

#33-0005

67¢₍₁₀₋₄₉₎ ... 51¢₍₅₀₋₉₉₎ ... 42¢₍₁₀₀₋₄₉₉₎

"F" Type CATV

- Ferrule included ■ For RG-59

- Minimum ten

#33-420

27¢₍₁₀₋₄₉₎ ... 20¢₍₅₀₋₉₉₎ ... 16¢₍₁₀₀₋₄₉₉₎

- Gold plated for low signal loss

- For RG-59 ■ Minimum ten

#33-0140

65¢₍₁₀₋₄₉₎ ... 50¢₍₅₀₋₉₉₎ ... 41¢₍₁₀₀₋₄₉₉₎

Push-On Connector

- Twist-on ■ No crimp ■ For RG-59

- Minimum ten

#33-890

47¢₍₁₀₋₄₉₎ ... 36¢₍₅₀₋₉₉₎ ... 30¢₍₁₀₀₋₄₉₉₎

- Gold plated for low signal loss

- For RG-59 ■ Minimum ten

#33-0010

78¢₍₁₀₋₄₉₎ ... 60¢₍₅₀₋₉₉₎ ... 49¢₍₁₀₀₋₄₉₉₎

"F" Type Connector

- Push-on ■ For RG-59 ■ Fixed center pin

#33-425

\$1.08₍₁₋₉₎ ... 89¢₍₁₀₋₄₉₎ ... 70¢₍₅₀₋₉₉₎

Twist-On "F" Connector

- No crimp ■ For RG-59

- Minimum ten

#27-890

48¢₍₁₀₋₄₉₎ ... 35¢₍₅₀₋₉₉₎ ... 28¢₍₁₀₀₋₄₉₉₎

Solderless "F" Type Connector

- Plastic strain relief included

#27-930

\$1.04₍₁₋₉₎ ... 85¢₍₁₀₋₄₉₎ ... 67¢₍₅₀₋₉₉₎

Push-On "F" Connector

- Crimp type ■ Ferrule included

- For RG-59 ■ Minimum ten

#33-900

51¢₍₁₀₋₄₉₎ ... 39¢₍₅₀₋₉₉₎ ... 32¢₍₁₀₀₋₄₉₉₎

"F" Push-On to "F" Female Adaptor

- Used to convert standard "F" type jumper cables to push-on type

#33-930

93¢₍₁₋₉₎ ... 76¢₍₁₀₋₄₉₎ ... 60¢₍₅₀₋₉₉₎

"F" Type Quick Connect

- Push-on ■ For RG-59

#27-500

\$1.79₍₁₋₉₎ ... \$1.47₍₁₀₋₄₉₎ ... \$1.16₍₅₀₋₉₉₎

"F" Type

Ferrule for RG-6 Cable

- 1/4" ■ 100 per bag

#27-1170

\$4.50_(1-9 bags) ... \$4.00_(10-49 bags) ... \$3.50_(50-99 bags)

Ferrule for RG-59 Cable

- 1/4" ■ 100 per bag

#33-920

\$3.83_(1-9 bags) ... \$3.10_(10-49 bags) ... \$2.51_(50-99 bags)

Ferrule for RG-59 Cable

- 1/2" ■ 100 per bag

#33-925

\$6.10_(1-9 bags) ... \$5.18_(10-49 bags) ... \$4.30_(50-99 bags)

"F" Type CATV

- Ferrule included ■ For RG-6

- Minimum ten

#33-745

31¢₍₁₀₋₄₉₎ ... 22¢₍₅₀₋₉₉₎ ... 18¢₍₁₀₀₋₄₉₉₎

- Gold plated for low signal loss

- For RG-6 ■ Minimum ten

#33-0145

65¢₍₁₀₋₄₉₎ ... 50¢₍₅₀₋₉₉₎ ... 41¢₍₁₀₀₋₄₉₉₎

"F" Type CATV

- Attached ferrule ■ For RG-6

- Anodized ■ Use with hex crimp tool ■ Minimum ten

#33-415

38¢₍₁₀₋₄₉₎ ... 28¢₍₅₀₋₉₉₎ ... 23¢₍₁₀₀₋₄₉₉₎

Push-On "F" Plug

- Quick connect

#33-430

95¢₍₁₋₉₎ ... 80¢₍₁₀₋₄₉₎ ... 62¢₍₅₀₋₉₉₎

Female Connector

- Crimp-on ■ For RG-59

- Anodized ■ Use with hex crimp tool

#33-885

\$1.11₍₁₋₉₎ ... 91¢₍₁₀₋₄₉₎ ... 72¢₍₅₀₋₉₉₎

- Gold plated for low signal loss

- For RG-59

#33-0150

\$1.61₍₁₋₉₎ ... \$1.32₍₁₀₋₄₉₎ ... \$1.04₍₅₀₋₉₉₎

Knurled F-81

- Minimum ten

#33-460

49¢₍₁₀₋₄₉₎ ... 36¢₍₅₀₋₉₉₎ ... 30¢₍₁₀₀₋₄₉₉₎

F-81 Female Splice

- With nut and washer

- Minimum ten

#27-475

51¢₍₁₀₋₄₉₎ ... 40¢₍₅₀₋₉₉₎ ... 32¢₍₁₀₀₋₄₉₉₎

"F" Type Chassis Mount F-61

- Nut and washer not included

#27-1175

50¢₍₁₋₉₎ ... 43¢₍₁₀₋₄₉₎ ... 31¢₍₅₀₋₉₉₎

"F" Type

"F" Type Chassis Mount F-61

- With nut and washer

- Minimum ten

#33-440

68¢₍₁₀₋₄₉₎ ... 53¢₍₅₀₋₉₉₎ ... 43¢₍₁₀₀₋₄₉₉₎

"F" Type Terminator

- 75ohm ■ Minimum ten

#33-550

47¢₍₁₀₋₄₉₎ ... 34¢₍₅₀₋₉₉₎ ... 28¢₍₁₀₀₋₄₉₉₎

"F" Type Male to RCA Female

- Minimum ten

#27-460

\$1.30₍₁₀₋₄₉₎ ... \$1.03₍₅₀₋₉₉₎ ... 86¢₍₁₀₀₋₄₉₉₎

"F" Type Female to RCA Male

#33-490

\$1.32₍₁₋₉₎ ... \$1.08₍₁₀₋₄₉₎ ... 85¢₍₅₀₋₉₉₎

"F" Type Female to RCA Female

#27-445

\$1.58₍₁₋₉₎ ... \$1.29₍₁₀₋₄₉₎ ... \$1.02₍₅₀₋₉₉₎

"F" Type Female to 3.5mm Plug

#27-805

\$1.51₍₁₋₉₎ ... \$1.24₍₁₀₋₄₉₎ ... 98¢₍₅₀₋₉₉₎

"F" Type Male to "F" Male

#33-480

\$1.08₍₁₋₉₎ ... 89¢₍₁₀₋₄₉₎ ... 70¢₍₅₀₋₉₉₎

"F" Type Female to "F" Male Right Angle

#27-470

\$1.26₍₁₋₉₎ ... \$1.03₍₁₀₋₄₉₎ ... 82¢₍₅₀₋₉₉₎

"F" Type Female PC Mount

#27-810

77¢₍₁₋₉₎ ... 65¢₍₁₀₋₄₉₎ ... 50¢₍₅₀₋₉₉₎

UHF Type

PL-259 for RG-59

- No reducer required ■ Twist on

#27-505

\$1.81₍₁₋₉₎ ... \$1.49₍₁₀₋₄₉₎ ... \$1.17₍₅₀₋₉₉₎

PL-259

- Reducer required (#27-337 or #27-332)

#27-330

\$1.81₍₁₋₉₎ ... \$1.49₍₁₀₋₄₉₎ ... \$1.17₍₅₀₋₉₉₎

PL-259 Connector Push-On

- Reducer required (#27-337 or #27-332)

#27-350

\$2.09₍₁₋₉₎ ... \$1.71₍₁₀₋₄₉₎ ... \$1.35₍₅₀₋₉₉₎



UHF Type

Reducers for RG-58 and RG-59 Cable

■ PL-259
 #27-337 (UG-175 for RG-58)
 #27-332 (UG-176 for RG-59)
 63¢ (1-9) 53¢ (10-49) 41¢ (50-99)

Chassis Mount, SO-259

#27-220
 \$1.67 (1-9) \$1.37 (10-49) \$1.08 (50-99)

Double PL-259

#27-335
 \$2.05 (1-9) \$1.68 (10-49) \$1.33 (50-99)

UHF Female, SO-258

■ In-line
 #27-260
 \$1.45 (1-9) \$1.19 (10-49) 94¢ (50-99)

UHF Right Angle Adaptor

#27-365
 \$3.80 (1-9) \$3.08 (10-49) \$2.50 (50-99)

UHF T-Adaptor

#27-370
 \$4.20 (1-9) \$3.40 (10-49) \$2.82 (50-99)

UHF Male to BNC Female

#27-250
 \$2.64 (1-9) \$2.13 (10-49) \$1.73 (50-99)

UHF Female to BNC Male

#27-360
 \$2.63 (1-9) \$2.13 (10-49) \$1.73 (50-99)

UHF Female to "F" Type Female

#27-375
 \$2.83 (1-9) \$2.38 (10-49) \$1.92 (50-99)

UHF Male to RCA Female

#27-345
 \$1.45 (1-9) \$1.19 (10-49) 94¢ (50-99)

UHF Female to RCA Male

#27-380
 \$1.68 (1-9) \$1.38 (10-49) \$1.09 (50-99)

Mini UHF Type

Mini UHF Male Crimp-On

■ For RG-58
 #27-975 Chrome
 \$1.62 (1-9) \$1.32 (10-49) \$1.05 (50-99)

#27-1155 Black
 \$2.05 (1-9) \$1.65 (10-49) \$1.30 (50-99)

Mini UHF Male to BNC Female

#27-980
 \$2.90 (1-9) \$2.35 (10-49) \$1.90 (50-99)

Mini UHF Type

Mini UHF Female to BNC Male

#27-995
 \$3.09 (1-9) \$2.51 (10-49) \$2.03 (50-99)

Mini UHF Male to TNC Female

#27-985 Chrome
 \$2.86 (1-9) \$2.31 (10-49) \$1.87 (50-99)

#27-1150 Black
 \$3.25 (1-9) \$2.65 (10-49) \$2.15 (50-99)

Mini UHF Female to TNC Male

#27-1000
 \$2.90 (1-9) \$2.35 (10-49) \$1.90 (50-99)

Mini UHF Male to UHF Female

#27-990
 \$3.25 (1-9) \$2.63 (10-49) \$2.13 (50-99)

Mini UHF Female to UHF Male

#27-1005
 \$3.44 (1-9) \$2.79 (10-49) \$2.26 (50-99)

SMA Connectors

SMA connectors are high precision connectors used in cellular telephone installations.

SMA Double Female Splice

#27-1195
 \$3.05 (1-9) \$2.75 (10-49) \$2.45 (50-99)

SMA Double Female Bulk Head Splice

#27-1200
 \$4.65 (1-9) \$4.25 (10-49) \$3.80 (50-99)

SMA Female Crimp Type

#27-1205
 \$3.05 (1-9) \$2.50 (10-49) \$2.00 (50-99)

SMA Female to BNC Female

#27-1210
 \$5.60 (1-9) \$4.50 (10-49) \$3.75 (50-99)

SMA Female to BNC Male

#27-1215
 \$3.85 (1-9) \$3.50 (10-49) \$3.15 (50-99)

SMA Female to TNC Female

#27-1220
 \$5.60 (1-9) \$4.50 (10-49) \$3.75 (50-99)

SMA Female to TNC Male

#27-1225
 \$5.95 (1-9) \$4.85 (10-49) \$4.00 (50-99)

SMA Female to UHF Male

#27-1230
 \$4.65 (1-9) \$4.20 (10-49) \$3.75 (50-99)

SMA Male Crimp-On

#27-1235
 \$2.05 (1-9) \$1.85 (10-49) \$1.65 (50-99)

SMA Connectors

SMA Male Right Angle Crimp

#27-1240
 \$3.60 (1-9) \$3.25 (10-49) \$2.90 (50-99)

SMA Male to BNC Female

#27-1245
 \$3.85 (1-9) \$3.50 (10-49) \$3.15 (50-99)

SMA Male to Female Right Angle Adaptor

#27-1250
 \$4.95 (1-9) \$4.50 (10-49) \$4.05 (50-99)

SMA Male to Mini UHF Female

#27-1255
 \$3.85 (1-9) \$3.50 (10-49) \$3.15 (50-99)

SMA Male to TNC Female

#27-1260
 \$5.95 (1-9) \$4.85 (10-49) \$4.00 (50-99)

SMA Male to UHF Female

#27-1265
 \$4.40 (1-9) \$4.00 (10-49) \$3.60 (50-99)

BNC Type

Male BNC Twist-On

#27-820 (RG-59)
 #27-830 (RG-58)
 \$1.97 (1-9) \$1.61 (10-49) \$1.27 (50-99)

Female BNC Twist-On

#27-1160 (RG-58)
 #27-1165 (RG-59)
 \$2.10 (1-9) \$1.75 (10-49) \$1.35 (50-99)

BNC Male Crimp-On

■ Ferrule included ■ For RG-58
 ■ Minimum ten
 #27-895
 \$1.24 (10-49) 98¢ (50-99) 82¢ (100-499)

BNC Male Crimp-On

■ Ferrule included ■ For RG-59
 ■ Minimum ten
 #27-425
 \$1.24 (10-49) 98¢ (50-99) 82¢ (100-499)

BNC Male Standard

■ For RG-58
 #27-270
 \$1.63 (1-9) \$1.34 (10-49) \$1.05 (50-99)

BNC Female Standard

■ For RG-58
 #27-1030
 \$2.07 (1-9) \$1.70 (10-49) \$1.34 (50-99)

■ For RG-59U

#27-1035
 \$2.07 (1-9) \$1.70 (10-49) \$1.34 (50-99)

Chassis Mount BNC Jack

#27-210
 \$1.67 (1-9) \$1.37 (10-49) \$1.08 (50-99)





CONNECTORS

BNC Type

BNC Male to BNC Male

#27-410
\$2⁷⁰₍₁₋₉₎ \$2¹⁹₍₁₀₋₄₉₎ \$1⁷⁷₍₅₀₋₉₉₎

BNC Female to BNC Female

#27-435
\$2⁵⁵₍₁₋₉₎ \$2⁰⁷₍₁₀₋₄₉₎ \$1⁶⁸₍₅₀₋₉₉₎

BNC Male to BNC Female Right Angle

#27-385
\$3⁶⁸₍₁₋₉₎ \$2⁹⁸₍₁₀₋₄₉₎ \$2⁴¹₍₅₀₋₉₉₎

BNC Male to BNC Female T-Connector

#27-390
\$4²⁴₍₁₋₉₎ \$3⁴³₍₁₀₋₄₉₎ \$2⁸⁵₍₅₀₋₉₉₎

Female BNC to Dual Banana Plugs

■ Banana plugs are spaced a standard 3/4" apart to plug into most test equipment

#27-1040
\$4²⁵₍₁₋₉₎ \$3⁴⁴₍₁₀₋₄₉₎ \$2⁷⁹₍₅₀₋₉₉₎

BNC Female to RCA Male

#33-510
\$1⁷⁴₍₁₋₉₎ \$1⁴²₍₁₀₋₄₉₎ \$1¹³₍₅₀₋₉₉₎

BNC Male to RCA Female

#27-405
\$1⁴⁵₍₁₋₉₎ \$1¹⁹₍₁₀₋₄₉₎ 94¢₍₅₀₋₉₉₎

BNC Male to RCA Male

#27-400
\$2⁷⁶₍₁₋₉₎ \$2²⁴₍₁₀₋₄₉₎ \$1⁸¹₍₅₀₋₉₉₎

BNC Female to "F" Type Male

#27-440
\$2²³₍₁₋₉₎ \$1⁸³₍₁₀₋₄₉₎ \$1⁴⁴₍₅₀₋₉₉₎

BNC Male to "F" Type Female

#27-415
\$2²¹₍₁₋₉₎ \$1⁸²₍₁₀₋₄₉₎ \$1⁴³₍₅₀₋₉₉₎

BNC Type Terminator

■ 50ohm
#27-665
\$2¹⁸₍₁₋₉₎ \$1⁷²₍₁₀₋₄₉₎ \$1³⁶₍₅₀₋₉₉₎

■ 75ohm
#27-855
\$2¹⁰₍₁₋₉₎ \$1⁷²₍₁₀₋₄₉₎ \$1³⁶₍₅₀₋₉₉₎

■ 93ohm
#27-1145
\$2⁰⁷₍₁₋₉₎ \$1⁶⁹₍₁₀₋₄₉₎ \$1³⁴₍₅₀₋₉₉₎

TNC Type

TNC Type Female

■ Crimp type ■ For RG-58

#27-780
\$1⁸⁵₍₁₋₉₎ \$1⁵¹₍₁₀₋₄₉₎ \$1²⁰₍₅₀₋₉₉₎

TNC Male Twist On

#27-1180 (RG-58)
#27-1185 (RG-59)
\$2²⁵₍₁₋₉₎ \$1⁸⁵₍₁₀₋₄₉₎ \$1⁵⁰₍₅₀₋₉₉₎

TNC Type

TNC Type Female

■ Twist-on ■ For RG-59

#27-775
\$2⁸⁹₍₁₋₉₎ \$1⁷²₍₁₀₋₄₉₎ \$1³⁶₍₅₀₋₉₉₎

TNC Type Female Chassis Mount

#27-785
\$1⁴⁵₍₁₋₉₎ \$1¹⁹₍₁₀₋₄₉₎ 94¢₍₅₀₋₉₉₎

TNC Type Female Bulkhead Mount

■ Crimp type
#27-765
\$2²¹₍₁₋₉₎ \$1⁸²₍₁₀₋₄₉₎ \$1⁴³₍₅₀₋₉₉₎

TNC Type Right Angle Adaptor

■ Male to female
#27-920 Chrome
\$3⁹⁹₍₁₋₉₎ \$2⁹¹₍₁₀₋₄₉₎ \$2³⁵₍₅₀₋₉₉₎

#27-1140 Black
\$3⁵⁹₍₁₋₉₎ \$2⁹¹₍₁₀₋₄₉₎ \$2³⁵₍₅₀₋₉₉₎

TNC Type "T" Adaptor

■ Three female connectors
#27-770
\$4⁰²₍₁₋₉₎ \$3²⁵₍₁₀₋₄₉₎ \$2⁶⁴₍₅₀₋₉₉₎

TNC In-Line Female to Female

#27-925
\$2¹²₍₁₋₉₎ \$1⁷³₍₁₀₋₄₉₎ \$1³⁷₍₅₀₋₉₉₎

TNC Type Female to BNC Male

#27-760
\$2¹⁸₍₁₋₉₎ \$1⁷⁶₍₁₀₋₄₉₎ \$1⁴³₍₅₀₋₉₉₎

TNC Type Male

■ Crimp type ■ For RG-58
#27-840 Chrome
\$1⁷²₍₁₋₉₎ \$1⁴¹₍₁₀₋₄₉₎ \$1¹¹₍₅₀₋₉₉₎

#27-1135 Black
\$1⁶⁰₍₁₋₉₎ \$1³¹₍₁₀₋₄₉₎ \$1⁰⁴₍₅₀₋₉₉₎

#27-1100 Gold Plated
\$2²⁴₍₁₋₉₎ \$1⁸²₍₁₀₋₄₉₎ \$1⁴⁷₍₅₀₋₉₉₎

TNC Terminator

■ 50ohm
#27-1190
\$2¹⁵₍₁₋₉₎ \$1⁷⁵₍₁₀₋₄₉₎ \$1⁴⁰₍₅₀₋₉₉₎

"N" Type Connectors for Satellite TV

Teflon insulated with high quality non-corroding nickel plating. For use with RG-211 or RG-213.

"N" Type Male

#27-545
\$3⁹⁰₍₁₋₉₎ \$3¹⁶₍₁₀₋₄₉₎ \$2⁵⁶₍₅₀₋₉₉₎

"N" Type Female

#27-547
\$3⁷⁸₍₁₋₉₎ \$3⁰⁶₍₁₀₋₄₉₎ \$2⁴⁸₍₅₀₋₉₉₎

"N" Type In-Line Male to Male

#27-550
\$4¹⁹₍₁₋₉₎ \$3⁴⁰₍₁₀₋₄₉₎ \$2⁸²₍₅₀₋₉₉₎

"N" Type Connectors for Satellite TV

"N" Type T-Adaptor

#27-557
\$6¹²₍₁₋₉₎ \$4⁹⁶₍₁₀₋₄₉₎ \$4¹¹₍₅₀₋₉₉₎

"N" Type Female to UHF Male Adaptor

#27-560
\$5¹⁶₍₁₋₉₎ \$4¹⁸₍₁₀₋₄₉₎ \$3⁴⁷₍₅₀₋₉₉₎

UHF Female to "N" Type Male Adaptor

#27-562
\$5¹²₍₁₋₉₎ \$4¹⁵₍₁₀₋₄₉₎ \$3⁴⁴₍₅₀₋₉₉₎

BNC Female to "N" Type Female Adaptor

#27-565
\$5²⁸₍₁₋₉₎ \$4²⁸₍₁₀₋₄₉₎ \$3⁵⁵₍₅₀₋₉₉₎

RCA

RCA Plug — Plastic Type

■ Minimum ten
#27-080 Black
#27-085 Red
49¢₍₁₀₋₄₉₎ 36¢₍₅₀₋₉₉₎ 29¢₍₁₀₀₋₄₉₉₎

RCA Plug — Metal Type

■ Minimum ten
#27-090
73¢₍₁₀₋₄₉₎ 56¢₍₅₀₋₉₉₎ 46¢₍₁₀₀₋₄₉₉₎

RCA Plug — Gold Plated

■ Spring-type strain relief ■ For cable up to .177" in diameter

#27-710
\$1⁵⁵₍₁₋₉₎ \$1²⁷₍₁₀₋₄₉₎ \$1⁰⁰₍₅₀₋₉₉₎

RCA Plug — Gold Plated

■ Spring-type strain relief ■ Color coded red and black ■ For cable up to .219" in diameter

#27-905 Black
#27-900 Red
\$1⁸⁹₍₁₋₉₎ \$1⁵⁵₍₁₀₋₄₉₎ \$1²²₍₅₀₋₉₉₎

RCA Plug — Gold Plated

■ Spring-type strain relief ■ Color coded red and black ■ For cable up to .255" in diameter

#27-950 Black
#27-945 Red
\$2¹⁴₍₁₋₉₎ \$1⁷⁵₍₁₀₋₄₉₎ \$1³⁸₍₅₀₋₉₉₎

RCA Male Right Angle

#27-495
\$1⁷⁶₍₁₋₉₎ \$1⁴⁴₍₁₀₋₄₉₎ \$1¹⁴₍₅₀₋₉₉₎

RCA Male Right Angle — Gold Plated

■ Set screw adjustment
■ Sold in pairs
#27-1095
\$14⁵²_(1-9 prs.) \$11⁷⁶_(10-49 prs.) \$9⁷⁶_(50-99 prs.)

RCA Chassis Mount — Phono Jack

■ Minimum ten
#27-200
53¢₍₁₀₋₄₉₎ 41¢₍₅₀₋₉₉₎ 33¢₍₁₀₀₋₄₉₉₎

Chassis Mount RCA to RCA Jack

■ Perfect for making patch bays
#27-1085
\$2⁰⁹₍₁₋₉₎ \$1⁷²₍₁₀₋₄₉₎ \$1³⁶₍₅₀₋₉₉₎



RCA

Dual RCA Jack

#27-955

74¢ (1-9) ... 63¢ (10-49) ... 48¢ (50-99)

Four RCA Jack

■ Single row

#27-960

\$1.13 (1-9) ... 92¢ (10-49) ... 73¢ (50-99)

Four RCA Jack

■ Double row

#27-965

\$1.13 (1-9) ... 92¢ (10-49) ... 73¢ (50-99)

RCA Jack

■ Metal type for extra ruggedness

■ In-line connector ■ Minimum ten

#27-190

80¢ (10-49) ... 62¢ (50-99) ... 50¢ (100-499)

RCA Jack—Gold Plated

■ Spring-type strain relief ■ For cable up to .177" in diameter

#27-705

\$1.56 (1-9) ... \$1.28 (10-49) ... \$1.01 (50-99)

RCA Jack—Gold Plated

■ Spring-type strain relief ■ For cable up to .219" in diameter

■ Color coded band (black or red)

#27-915 Black

\$1.89 (1-9) ... \$1.55 (10-49) ... \$1.22 (50-99)

#27-910 Red

\$1.89 (1-9) ... \$1.55 (10-49) ... \$1.22 (50-99)

RCA Phono Jack Connector

■ Metal for durability and long life

■ Connects two male RCA plugs

#27-230

\$1.26 (1-9) ... \$1.04 (10-49) ... 82¢ (50-99)

RCA Phono Jack Connector

■ Plastic design ■ Female RCA to female RCA ■ Minimum ten

#27-240

77¢ (10-49) ... 59¢ (50-99) ... 48¢ (100-499)

RCA Plug to Plug Adaptor

#27-700

\$1.52 (1-9) ... \$1.24 (10-49) ... 98¢ (50-99)

RCA "T" Adaptor

■ Male to two females

#27-605

\$1.74 (1-9) ... \$1.43 (10-49) ... \$1.13 (50-99)

RCA "T" Adaptor

■ Female to two males

#27-695

\$1.74 (1-9) ... \$1.43 (10-49) ... \$1.13 (50-99)

Crimp-On RCA Plug

■ Perfect for VCR and other RF applications ■ Ferrule included

■ For RG-59 cable ■ Minimum ten

#27-570

51¢ (10-49) ... 39¢ (50-99) ... 32¢ (100-499)

RCA Jack to 3.5mm Plug

■ Used to convert video input and output on older VCRs from 3.5mm to RCA jack

#27-315

\$1.29 (1-9) ... \$1.06 (10-49) ... 84¢ (50-99)

Audio

Speaker Pin Connectors—Gold Plated

■ Available in three sizes for different size speaker wire

■ Allows easy access to connecting and disconnecting speakers

Order #	Inside Diameter	(1-9)	(10-49)	(50-99)
27-1090	2.5mm	\$2.32	\$1.88	\$1.52
27-1091	4.0mm	2.40	1.95	1.58
27-1092	6.0mm	2.75	2.22	1.80

3.5mm Mono Plug

■ 3.5mm plugs for many applications ■ Minimum ten

#27-070

51¢ (10-49) ... 39¢ (50-99) ... 32¢ (100-499)

3.5mm Stereo Plug

■ Repairs Walkman type headphones ■ Minimum ten

#27-060

69¢ (10-49) ... 53¢ (50-99) ... 44¢ (100-499)

3.5mm Mono Jack

■ In-line type ■ Minimum ten

#27-075

63¢ (10-49) ... 49¢ (50-99) ... 40¢ (100-499)

3.5mm Mono Plug to 3.5mm Stereo Jack Adaptor

#27-320

\$1.00 (1-9) ... 85¢ (10-49) ... 65¢ (50-99)

3.5mm Mono Plug to 1/4" Mono Phone Jack

■ All metal construction for durability

#27-880

\$1.40 (1-9) ... \$1.15 (10-49) ... 91¢ (50-99)

3.5mm Mono Plug to 1/4" Mono Phone Jack

#27-795

99¢ (1-9) ... 81¢ (10-49) ... 64¢ (50-99)

3.5mm Jacks to 2.5mm Plugs

■ Converts a 3.5mm plug to a 2.5mm plug ■ Available in mono-mono, stereo-mono, and stereo-stereo

Order #	Type	(1-9)	(10-49)	(50-99)
27-865	Mono-Mono	\$.99	\$.84	\$.65
27-870	Stereo-Mono	.99	.84	.65
27-875	Stereo-Stereo	2.58	2.09	1.70

3.5mm Dual Stereo Headphone Adaptor

■ Great for using two headphones at one time on your Walkman type stereo

#27-020

\$2.15 (1-9) ... \$1.75 (10-49) ... \$1.42 (50-99)

Headphone Adaptor

■ 3.5mm stereo plug to 1/4" stereo phone jack

#27-835

\$1.17 (1-9) ... 96¢ (10-49) ... 76¢ (50-99)

Headphone Adaptor

■ 6.5mm (1/4") stereo plug to 3.5mm stereo jack ■ Converts Walkman type headphones to fit Hi-Fi applications

#27-010

\$1.08 (1-9) ... 89¢ (10-49) ... 70¢ (50-99)

Audio

1/4" Mono Phone Plug

■ Solder type with internal strain relief ■ Top-quality molded-plastic housing ■ Minimum ten

#27-050

66¢ (10-49) ... 51¢ (50-99) ... 42¢ (100-499)

1/4" Mono Phone Plug

■ Standard 1/4" phone plug

#27-040

\$1.14 (1-9) ... 93¢ (10-49) ... 74¢ (50-99)

1/4" Mono Plug Right Angle

■ Metal case ■ Solder type

#27-572

99¢ (1-9) ... 84¢ (10-49) ... 65¢ (50-99)

1/4" Mono Right Angle Plug

■ Sturdy steel design with black plastic housing ■ Screw type wire connections

#27-1010

\$1.04 (1-9) ... 85¢ (10-49) ... 67¢ (50-99)

1/4" Phone Plug—Gold Plated

■ Spring-type strain relief ■ Solder type connection

#27-1045 Mono

\$2.47 (1-9) ... \$2.00 (10-49) ... \$1.62 (50-99)

#27-1050 Stereo

\$2.68 (1-9) ... \$2.17 (10-49) ... \$1.76 (50-99)

1/4" Stereo Phone Plug

■ Solder type with internal strain relief ■ Top-quality, molded-plastic housing ■ Minimum ten

#27-030

85¢ (10-49) ... 65¢ (50-99) ... 54¢ (100-499)

Dual Headphone Adaptors

■ Two 1/4" jacks to one 1/4" plug

#27-1020 Mono

\$2.34 (1-9) ... \$1.90 (10-49) ... \$1.54 (50-99)

#27-1015 Stereo

\$2.48 (1-9) ... \$2.01 (10-49) ... \$1.63 (50-99)

1/4" Coupler

■ Stereo or mono jack to stereo or mono jack ■ Couples two 1/4" plugs

#27-1025

\$2.34 (1-9) ... \$1.90 (10-49) ... \$1.54 (50-99)

Stereo Inline Jack—Gold Plated

■ 1/4" jack with spring-type strain relief ■ Solder type connection

#27-1055

\$3.60 (1-9) ... \$2.91 (10-49) ... \$2.36 (50-99)

1/4" Stereo Phone Jack

■ Minimum ten

#27-170

80¢ (10-49) ... 62¢ (50-99) ... 50¢ (100-499)

1/4" Phone Jacks

■ Open circuit

#27-180 Mono

94¢ (1-9) ... 80¢ (10-49) ... 62¢ (50-99)

#27-935 Stereo

\$1.28 (1-9) ... \$1.05 (10-49) ... 83¢ (50-99)

1/4" Stereo Phone Jack

■ Closed circuit

#27-940

\$1.45 (1-9) ... \$1.19 (10-49) ... 94¢ (50-99)



CONNECTORS

Audio

1/4" Plug to 1/4" Plug (Mono)

■ Metal case

#27-1275

\$1.50 (1-9) \$1.25 (10-49) 95¢ (50-99)

1/4" Plug to RCA Jack Adaptor

#27-575

\$1.01 (1-9) 83¢ (10-49) 66¢ (50-99)

1/4" Mono Phone Plug to 3.5mm Mono Jack

#27-815

\$1.05 (1-9) 86¢ (10-49) 68¢ (50-99)

2.5mm Stereo Plug

■ Solder type

#27-790

\$1.06 (1-9) 87¢ (10-49) 69¢ (50-99)

2.5mm Mono Plug

■ Solder type ■ Minimum ten

#27-577

48¢ (10-49) 35¢ (50-99) 29¢ (100-499)

2.5mm Mono Chassis Mount Jack

#27-800

49¢ (1-9) 44¢ (10-49) 32¢ (50-99)

3.5mm Mono Jack

■ All metal ■ In-line type

■ Minimum ten

#27-885

80¢ (10-49) 63¢ (50-99) 53¢ (100-499)

3.5mm Chassis Mount Jack

#27-650 Mono

49¢ (1-9) 44¢ (10-49) 32¢ (50-99)

#27-655 Stereo

56¢ (1-9) 49¢ (10-49) 36¢ (50-99)

DIN Plugs

5 Pin

#27-140

83¢ (1-9) 70¢ (10-49) 54¢ (50-99)

7 Pin

#27-670

98¢ (1-9) 83¢ (10-49) 64¢ (50-99)

8 Pin

#27-675

96¢ (1-9) 82¢ (10-49) 63¢ (50-99)

PCB Mount DIN Sockets

5 Pin

#27-590

\$1.07 (1-9) 88¢ (10-49) 69¢ (50-99)

7 Pin

#27-595

\$1.42 (1-9) \$1.16 (10-49) 92¢ (50-99)

8 Pin

#27-600

\$1.69 (1-9) \$1.38 (10-49) \$1.09 (50-99)

5 Pin DIN Connector Female Socket

#27-145

89¢ (1-9) 75¢ (10-49) 58¢ (50-99)

8 Pin Subminiature DIN Plug

#27-647

\$1.65 (1-9) \$1.35 (10-49) \$1.07 (50-99)

Audio

3 Pin XLR Male Plug

#27-160

\$2.42 (1-9) \$2.77 (10-49) \$2.24 (50-99)

3 Pin XLR Female Jack

#27-165

\$4.06 (1-9) \$3.29 (10-49) \$2.73 (50-99)

Panel Mount Male XLR

■ Solder cup connections

■ Requires 3/4" hole for mounting

■ Use with #27-165

#27-685

\$3.52 (1-9) \$2.85 (10-49) \$2.31 (50-99)

Panel Mount Female XLR

■ Solder cup connections

■ Requires 7/8" hole for mounting

■ Use with #27-160

#27-690

\$4.38 (1-9) \$3.55 (10-49) \$2.94 (50-99)

Video

10 Pin Male Video Camera Plug

#32-260

\$7.68 (1-9) \$6.22 (10-49) \$5.16 (50-99)

10 Pin Female Video Camera Jack

#32-310

\$7.79 (1-9) \$6.31 (10-49) \$5.24 (50-99)

8 Pin Male Video Monitor Plug

#32-250

\$4.50 (1-9) \$3.85 (10-49) \$3.40 (50-99)

8 Pin Female Video Monitor Jack

#32-300

\$3.70 (1-9) \$2.99 (10-49) \$2.43 (50-99)

Twinaxial Connectors

Used for audio, pulse or RF signal transmission when high noise levels are anticipated.

Male

#27-582

\$5.68 (1-9) \$4.60 (10-49) \$3.82 (50-99)

Female

#27-585

\$5.34 (1-9) \$4.32 (10-49) \$3.59 (50-99)

Miscellaneous Connectors

Barrel Plugs

■ Nine sizes ■ Solder type

Order#	O.D.	I.D.
27-1110	(3.5mm x 1.2mm)	
27-1115	(3.8mm x 1.0mm)	
27-1125	(5.0mm x 2.1mm)	
27-1130	(5.0mm x 2.5mm)	
27-1080	(5.5mm x 1.5mm)	
27-130	(5.5mm x 2.1mm)	
27-135	(5.5mm x 2.5mm)	
27-1120	(5.5mm x 2.8mm)	
27-860	(6.3mm x 3.0mm)	

73¢ (1-9) 62¢ (10-49) 47¢ (50-99)

Miscellaneous Connectors

Power Jack

■ 3 prong ■ Panel mount

■ Used in computers and test equipment

#28-0170 \$1.05 (1-9) 85¢ (10-up)

Cigarette Lighter Receptacle

■ In-line type ■ 5A capacity

#27-825

\$1.51 (1-9) \$1.24 (10-49) 98¢ (50-99)

Lighter Plug

■ 12V cigarette lighter plug

■ Good for CBs, portable TVs, radar detectors, etc.

#27-110

\$1.01 (1-9) 83¢ (10-49) 65¢ (50-99)

Fused Lighter Plug

■ 12V cigarette lighter plug

■ Great for CBs, portable TVs, radar detectors, etc. ■ Self-contained 3A fuse ■ Eliminates in-line fuse

#27-610

\$1.63 (1-9) \$1.34 (10-49) \$1.06 (50-99)

2.1mm Barrel Jack

■ Solder type

#27-750

\$1.55 (1-9) \$1.27 (10-49) \$1.00 (50-99)

2.5mm Barrel Jack

■ Solder type

#27-755

\$1.55 (1-9) \$1.27 (10-49) \$1.00 (50-99)

Grounding Adaptor

■ Converts 3 conductor grounded plugs for use in 2 conductor ungrounded outlets

#27-310

\$1.11 (1-9) 91¢ (10-49) 72¢ (50-99)

Antenna Plug

■ Standard Motorola type auto antenna plug ■ Minimum ten

#27-150

52¢ (10-49) 40¢ (50-99) 33¢ (100-499)

Antenna Jack

■ Standard Motorola type auto antenna jack ■ Minimum ten

#27-155

54¢ (10-49) 42¢ (50-99) 34¢ (100-499)

Insulated Banana Plug

#27-520 Black

#27-525 Red

68¢ (1-9) 58¢ (10-49) 45¢ (50-99)

Saludos! Podemos acomodar nuestros clientes de habla Hispana



Miscellaneous Connectors

Banana Plugs—Gold Plated

- Color coded red and black
- Screw type adjustment ■ Solder in pairs

#27-1060
\$5.69 (1-9 prs.) \$4.61 (10-49 prs.) \$3.82 (50-99 prs.)

Five-Way Insulated Binding Post

- Accepts standard banana plug
- Solder type terminal

#27-740 Black
#27-735 Red
\$1.02 (1-9) 84¢ (10-49) 66¢ (50-99)

Dual Banana Plug

#27-530
\$2.09 (1-9) \$1.88 (10-49) \$1.80 (50-99)

Dual Binding Post

- Accepts standard banana plugs
- 3/4" centers ■ One red, one black

#27-745
\$2.67 (1-9) \$2.17 (10-49) \$1.75 (50-99)

Binding Posts to BNC Male

#27-535
\$9.85 (1-9) \$8.38 (10-49) \$7.04 (50-99)

9 Volt Battery Clip

- Replacement for broken clips
- 5 1/2" lead length ■ Minimum ten

#29-130
21¢ (10-49) 15¢ (50-99) 11¢ (100-499)

Four-Way Flat Connector

- Keyed for correct hook-up every time ■ 8" leads ■ Ideal for trailer light harness ■ Color-coded leads

#27-620
\$3.90 (1-9) \$3.16 (10-49) \$2.56 (50-99)

Two-Way Flat Connector

- 8" color-coded leads
- Keyed for correct hook-up every time

#27-615
\$2.04 (1-9) \$1.67 (10-49) \$1.32 (50-99)

CB Mic Jack

- Solder cup connections

#27-720 (4 Pin)
#27-730 (5 Pin)
\$1.99 (1-9) \$1.63 (10-49) \$1.29 (50-99)

CB Mic Plug

- Solder type

#27-715 (4 Pin)
#27-725 (5 Pin)
\$2.05 (1-9) \$1.69 (10-49) \$1.33 (50-99)

TV Line Clips

- For antenna lead hook ups
- High quality construction ■ For quick connection of 300ohm twin lead to antenna terminals ■ Two per package

#33-610
55¢ (1-9 pkg.) 46¢ (10-49 pkg.) 36¢ (50-99 pkg.)

CAMBRIDGE PRODUCTS CORPORATION

Cambridge Fastfit® twist-on and crimp-on connectors offer ease of installation and high integrity terminations.

Each connector is individually bagged and contains detailed assembly instructions.

Cambridge BNC Type

BNC Male Twist-On

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-100	RG-58	\$2.95	\$2.65	\$2.35
57-250	RG-58 plenum	3.25	2.95	2.65
57-105	RG-59/62	2.95	2.65	2.35
57-245	RG-59/62 plenum	3.25	2.95	2.65

BNC Male Right Angle

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-110	RG-58	\$5.35	\$4.95	\$4.50
57-115	RG-59/62	5.35	4.95	4.50
57-260	RG-59 plenum	5.65	5.25	4.85

BNC Female Twist-On

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-120	RG-58	\$3.10	\$2.80	\$2.45
57-125	RG-59/62	3.10	2.80	2.45
57-255	RG-59/62 plenum	3.25	2.95	2.65

BNC Male Crimp-On

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-130	RG-58	\$2.45	\$2.25	\$2.05
57-290 NEW	RG-58 plenum	2.95	2.65	2.35
57-135	RG-59/62	2.45	2.25	2.05
57-285 NEW	RG-59/62 plenum	2.95	2.65	2.35

BNC Female Crimp-On

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-140	RG-58	\$2.35	\$2.15	\$1.95
57-145	RG-59/62	2.35	2.15	1.95

BNC Male Terminated

- Resistor tolerance: 5%

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-160	50ohm	\$3.95	\$3.50	\$3.05
57-165	75ohm	3.95	3.50	3.05
57-170	93ohm	3.95	3.50	3.05

BNC Male "F" Type Female

#57-225
\$3.10 (1-9) \$2.70 (10-49) \$2.30 (50-up)

Cambridge TNC Type

Male Twist-On

- For RG-58 ■ Cambridge

#CPFI-TNC-1
#57-175
\$3.45 (1-9) \$3.00 (10-49) \$2.50 (50-up)

TNC Male Right Angle

- Twist-on ■ For RG-58
- Cambridge #CPFI-TNC-RA1

#57-180
\$5.95 (1-9) \$5.25 (10-49) \$4.50 (50-up)

TNC Female Twist-On

- Twist-on ■ For RG-58
- Cambridge #CPFI-TNC-89-1

#57-185
\$3.75 (1-9) \$3.25 (10-49) \$2.75 (50-up)

TNC Male Crimp-On

- For RG-58 ■ Cambridge

#CP-TNC-1
#57-190
\$3.25 (1-9) \$2.75 (10-49) \$2.50 (50-up)

TNC Female Crimp-On

- For RG-58 ■ Cambridge

#CP-TNC-89-1
#57-195
\$3.25 (1-9) \$2.85 (10-49) \$2.50 (50-up)

TNC Male Terminated

- 50ohm ■ Resistor tolerance: 5%
- Cambridge

#CP-TNC-T50ohm
#57-200
\$4.25 (1-9) \$3.85 (10-49) \$3.50 (50-up)

Cambridge UHF Type

UHF Male Twist-On

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-210	RG-58	\$1.95	\$1.75	\$1.50
57-205	RG-59/62	1.95	1.75	1.50

Mini UHF Male Dual Crimp

Order #	Type	Price (1-9)	(10-49)	(50-up)
57-215	RG-58	\$1.45	\$1.25	\$1.05
57-220	RG-59	1.45	1.25	1.05

Cambridge RG-58 Crimp Tool

- High quality crimp tool
- Controlled ratchet crimp cycle
- Ergonomically designed handle
- Dies included ■ For RG-58 connectors

#57-270 \$99.95 (ea.)

Cambridge RG-59 Crimp Tool

- High quality crimp tool
- Controlled ratchet crimp cycle
- Ergonomically designed handle
- Dies included ■ For RG-59 connectors

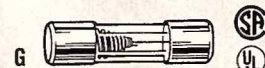
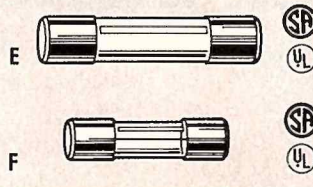
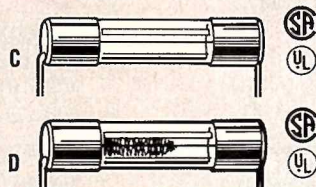
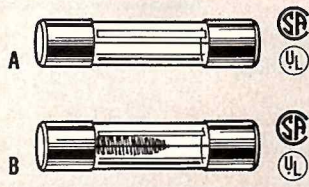
#57-265 \$99.95 (ea.)

Replacement Dies

#57-280
\$29.95 (ea.)

Replacement Dies

#57-275
\$29.95 (ea.)



Littelfuse NOTE: Sorry—no mixing of values or types for quantity pricing

A. 3AG Fast-Acting—1 1/4" x 1/4"

UL listed and CSA certified ■ 250V ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
312.062	1/16	\$4.07	\$3.56	\$2.54
312.100	1/10	4.07	3.56	2.54
312.125	1/8	4.07	3.56	2.54
312.150	15/100	4.07	3.56	2.54
312.175	.175	4.07	3.56	2.54
312.187	3/16	4.07	3.56	2.54
312.200	2/10	4.07	3.56	2.54
312.250	1/4	2.51	2.21	1.59
312.300	3/10	2.51	2.21	1.59
312.375	3/8	2.51	2.21	1.59
312.500	1/2	1.77	1.56	1.14
312.600	5/10	1.77	1.56	1.14
312.750	3/4	1.17	1.01	.74
312.001	1	1.17	1.01	.74
312.125	1 1/4	1.17	1.01	.74
312.01.5	1 1/2	1.17	1.01	.74
312.01.6	1 5/10	1.17	1.01	.74
312.1.75	1 3/4	1.17	1.01	.74
312.002	2	1.17	1.01	.74
312.2.25	2 1/4	1.17	1.01	.74
312.02.5	2 1/2	1.17	1.01	.74
312.003	3	1.17	1.01	.74
312.004	4	1.77	1.56	1.14
312.005	5	1.77	1.56	1.14
312.006	6	1.77	1.56	1.14
312.007	7	1.77	1.56	1.14
312.008	8	2.32	2.06	1.49
312.010	10	2.32	2.06	1.49

B. 3AG Slo-Blo®—1 1/4" x 1/4"

UL listed, CSA certified through 7A (250V); UL recognized 8-20A (32V) ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
313.062	1/16	\$6.37	\$5.61	\$4.09
313.100	1/10	6.37	5.61	4.09
313.125	1/8	6.37	5.61	4.09
313.150	15/100	6.37	5.61	4.09
313.175	.175	6.37	5.61	4.09
313.187	3/16	6.37	5.61	4.09
313.200	2/10	6.37	5.61	4.09
313.250	1/4	3.92	3.41	2.49
313.300	3/10	3.92	3.41	2.49
313.375	3/8	3.92	3.41	2.49
313.400	4/10	3.92	3.41	2.49
313.500	1/2	3.72	3.26	2.39
313.600	5/10	3.72	3.26	2.39
313.700	7/10	3.72	3.26	2.39
313.750	3/4	3.72	3.26	2.39
313.800	8/10	3.72	3.26	2.39
313.001	1	3.72	3.26	2.39
313.1.25	1 1/4	2.82	2.51	1.79
313.01.5	1 1/2	2.82	2.51	1.79
313.01.6	1 5/10	2.82	2.51	1.79
313.01.8	1 7/10	2.82	2.51	1.79
313.002	2	2.82	2.51	1.79
313.2.25	2 1/4	2.82	2.51	1.79
313.02.5	2 1/2	2.82	2.51	1.79
313.02.8	2 3/4	2.82	2.51	1.79
313.003	3	2.82	2.51	1.79
313.03.2	3 1/2	2.82	2.51	1.79
313.004	4	2.82	2.51	1.79
313.005	5	2.82	2.51	1.79
313.2.5	6 1/4	2.82	2.51	1.79
313.007	7	2.82	2.51	1.79
313.008	8	2.82	2.51	1.79
313.010	10	3.82	3.31	2.44
313.012	12	3.82	3.31	2.44
313.015	15	3.82	3.31	2.44
313.020	20	3.82	3.31	2.44
313.025	25	3.82	3.31	2.44
313.030	30	3.82	3.31	2.44

C. 3AG Fast-Acting Pigtail—1 1/4" x 1/4"

UL listed and CSA certified ■ 250V ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
318.062	1/16	\$5.52	\$4.82	\$3.54
318.100	1/10	5.52	4.82	3.54
318.125	1/8	5.52	4.82	3.54
318.150	15/100	5.52	4.82	3.54
318.175	.175	5.52	4.82	3.54
318.187	3/16	5.52	4.82	3.54
318.200	2/10	5.52	4.82	3.54
318.250	1/4	3.42	3.01	2.19
318.300	3/10	3.42	3.01	2.19
318.375	3/8	3.42	3.01	2.19
318.500	1/2	3.42	3.01	2.19
318.600	5/10	3.42	3.01	2.19
318.750	3/4	3.42	3.01	2.19
318.001	1	2.52	2.21	1.59
318.1.25	1 1/4	2.52	2.21	1.59
318.01.5	1 1/2	2.52	2.21	1.59
318.01.6	1 5/10	2.52	2.21	1.59
318.1.75	1 3/4	2.52	2.21	1.59
318.002	2	2.52	2.21	1.59
318.2.25	2 1/4	2.52	2.21	1.59
318.02.5	2 1/2	2.52	2.21	1.59
318.003	3	2.52	2.21	1.59
318.004	4	2.57	2.26	1.64
318.005	5	2.57	2.26	1.64
318.006	6	2.57	2.26	1.64
318.007	7	2.57	2.26	1.64
318.008	8	2.57	2.26	1.64
318.010	10	2.57	2.26	1.64

D. 3AG Slo-Blo® Pigtail—1 1/4" x 1/4"

UL listed, CSA certified through 7A (250V); UL recognized 8-20A (32V) ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
315.062	1/16	\$8.27	\$7.26	\$5.29
315.100	1/10	8.27	7.26	5.29
315.125	1/8	8.27	7.26	5.29
315.150	15/100	8.27	7.26	5.29
315.175	.175	8.27	7.26	5.29
315.187	3/16	8.27	7.26	5.29
315.200	2/10	8.27	7.26	5.29
315.250	1/4	4.87	4.26	3.09
315.300	3/10	4.87	4.26	3.09
315.375	3/8	4.87	4.26	3.09
315.400	4/10	4.87	4.26	3.09
315.500	1/2	3.82	3.36	2.44
315.600	5/10	3.82	3.36	2.44
315.700	7/10	3.82	3.36	2.44
315.750	3/4	3.82	3.36	2.44
315.800	8/10	3.82	3.36	2.44
315.001	1	3.82	3.36	2.44
315.01.2	1 2/10	3.82	3.36	2.44
315.1.25	1 1/4	3.82	3.36	2.44
315.01.5	1 1/2	3.82	3.36	2.44
315.01.6	1 5/10	3.82	3.36	2.44
315.01.8	1 7/10	3.82	3.36	2.44
315.002	2	3.82	3.36	2.44
315.2.25	2 1/4	3.82	3.36	2.44
315.02.5	2 1/2	3.82	3.36	2.44
315.02.8	2 3/4	3.82	3.36	2.44
315.003	3	3.82	3.36	2.44
315.004	4	3.77	3.31	2.39
315.005	5	3.77	3.31	2.39
315.2.5	6 1/4	3.77	3.31	2.39
315.007	7	3.77	3.31	2.39
315.008	8	3.77	3.31	2.39
315.010	10	4.47	3.91	2.84
315.012	12	4.47	3.91	2.84
315.015	15	4.47	3.91	2.84
315.020	20	4.47	3.91	2.84
315.025	25	4.47	3.91	2.84
315.030	30	4.47	3.91	2.84

E. 3AB Ceramic Slo-Blo®—1 1/4" x 1/4"

UL listed, CSA certified through 10A (250V); UL recognized 12-30A (125V) ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
326.250	1/4	\$6.27	\$5.46	\$3.99
326.375	3/8	6.27	5.46	3.99
326.500	1/2	6.27	5.46	3.99
326.750	3/4	6.27	5.46	3.99
326.001	1	6.27	5.46	3.99
326.002	2	6.27	5.46	3.99
326.003	3	4.37	3.86	2.79
326.004	4	4.37	3.86	2.79
326.005	5	4.37	3.86	2.79
326.2.5	6 1/4	4.37	3.86	2.79
326.007	7	4.37	3.86	2.79
326.008	8	4.37	3.86	2.79
326.010	10	4.37	3.86	2.79
326.012	12	4.37	3.86	2.79
326.015	15	4.37	3.86	2.79
326.020	20	4.37	3.86	2.79
326.025	25	4.37	3.86	2.79
326.030	30	4.37	3.86	2.79

E. 3AB Ceramic Fast-Acting—1 1/4" x 1/4"

UL listed, CSA certified through 15A (250V); UL recognized 20-30A (125V) ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
314.250	1/4	\$3.12	\$2.71	\$1.99
314.375	3/8	3.12	2.71	1.99
314.500	1/2	3.12	2.71	1.99
314.750	3/4	3.12	2.71	1.99
314.001	1	2.92	2.56	1.84
314.002	2	2.92	2.56	1.84
314.003	3	2.92	2.56	1.84
314.004	4	2.92	2.56	1.84
314.005	5	2.77	2.41	1.79
314.006	6	2.77	2.41	1.79
314.007	7	2.77	2.41	1.79
314.008	8	2.77	2.41	1.79
314.010	10	2.77	2.41	1.79
314.012	12	2.77	2.41	1.79
314.015	15	2.77	2.41	1.79
314.020	20	4.07	3.56	2.59
314.025	25	4.07	3.56	2.59
314.030	30	4.07	3.56	2.59

F. Fast-Acting—20mm x 5mm

UL listed and CSA certified ■ 250V ■ 4-6A, 125V ■ Five fuses per package

Order #	Ampere Rating	Price Per Package		
		(1-19)	(20-199)	(200-up)
235.100	1/10	\$2.67	\$2.31	\$1.69
235.125	1/8	2.67	2.31	1.69
235.200	2/10	2.67	2.31	1.69
235.250	1/4	2.67	2.31	1.69
235.300	3/10	2.67	2.31	1.69
235.400	4/10	2.67	2.31	1.69
235.500	1/2	1.42	1.21	.89
235.600	5/10	1.42	1.21	.89
235.700	7/10	1.42	1.21	.89
235.800	8/10	1.42	1.21	.89
235.001	1	1.27	1.11	.79
235.1.25	1 1/4	1.27	1.11	.79
235.01.6	1 5/10	1.27	1.11	.79
235.002	2	1.27	1.11	.79
235.02.5	2 1/2	1.27	1.11	.79
235.003	3	1.27	1.11	.79
235.004	4	1.27	1.11	.79
235.005	5	1.27	1.11	.79
235.006	6	1.27	1.11	.79

G. Glo-Blow®—20mm x 5mm

UL listed and CSA certified ■ 250V ■ Five fuses per package

Order #	Ampere	Price Per Package		
	Rating	(1-19)	(20-199)	(200-up)
239.250	1/4	\$2.77	\$2.46	\$1.79
239.300	3/10	2.77	2.46	1.79
239.400	4/10	2.77	2.46	1.79
239.500	1/2	2.77	2.46	1.79
239.600	6/10	2.77	2.46	1.79
239.700	7/10	2.77	2.46	1.79
239.750	3/4	2.77	2.46	1.79
239.800	8/10	2.77	2.46	1.79
239001	1	2.77	2.46	1.79
2391.25	1 1/4	2.77	2.46	1.79
23901.6	16/10	2.77	2.46	1.79
239002	2	2.77	2.46	1.79
23902.5	2 1/2	2.77	2.46	1.79
239003	3	2.77	2.46	1.79
239004	4	2.77	2.46	1.79



TENMA™ Fuses

Superior quality Tenma fuses are manufactured using the latest technology and the most exacting specifications. Let Tenma fuses protect your valuable electronics. Five fuses per box.
Sorry—no mixing of values for quantity pricing.

A. AGC 250 Volt Standard—1¼" x ¼"

■ Guaranteed high quality

Order #	Amperage Rating	Order #	Amperage Rating
28-285	.25A	28-305	4A
28-288	.5A	28-308	5A
28-290	.75A	28-310	6A
28-293	1A	28-313	7A
28-295	1.5A	28-315	8A
28-298	2A	28-318	10A
28-300	2.5A	28-320	15A
28-303	3A	28-323	20A
28-304	3.5A		

65¢ (1-19 boxes) 30¢ (20 boxes-up)

A. UL Listed AGC—1¼" x ¼"

■ Standard ■ 250V

Order #	Amperage Rating	Order #	Amperage Rating
28-750	.25A	28-767	3.15A
28-752	.35A	28-766	3.5A
28-753	.5A	28-768	4A
28-755	1A	28-770	5A (125V)
28-758	1.5A	28-773	6A (125V)
28-759	1.6A	28-774	6.3A (125V)
28-760	2A	28-775	7A (125V)
28-763	2.5A		
28-765	3A		

95¢ (1-19 boxes) 75¢ (20-199 boxes) 60¢ (200 boxes-up)

B. TDL 250 Volt Slow Blowing—1¼" x ¼"

Order #	Amperage Rating	Order #	Amperage Rating
28-343	1A	28-350	3A
28-345	1.5A	28-353	4A
28-348	2A	28-355	5A
28-349	2.5A		

\$1.50 (1-19 boxes) \$1.40 (20-199 boxes) \$1.25 (200 boxes-up)

C. MGP 250 Volt Pigtail—1¼" x ¼"

Order #	Amperage Rating	Order #	Amperage Rating
28-326	.25A	28-324	2.5A
28-327	.5A	28-333	3A
28-329	.75A	28-335	4A
28-325	1A	28-338	5A
28-328	1.5A	28-340	6A
28-330	2A		

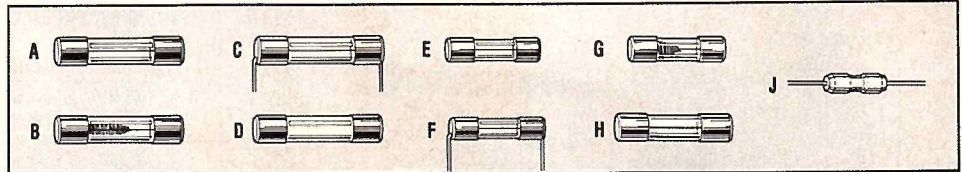
90¢ (1-19 boxes) 75¢ (20-199 boxes) 55¢ (200 boxes-up)

D. Ceramic—1¼" x ¼"

■ For microwaves and other small appliances

Order #	Amperage Rating	Order #	Amperage Rating
28-0200	5A	28-0215	20A
28-0205	10A	28-0220	25A
28-0208 NEW	12A	28-0225	30A
28-0210	15A		

\$2.45 (1-19 boxes) \$2.20 (20-199 boxes) \$1.95 (200 boxes-up)



E. GMA—20mm x 5mm

■ 250V

Order #	Amperage Rating	Order #	Amperage Rating
28-356	.25A	28-372 NEW	4.5A
28-357	.5A	28-373	5A
28-359	.75A	28-374 NEW	5.5A
28-358	1A	28-375	6A
28-360	1.5A	28-376 NEW	6.5A
28-363	2A	28-378	7A
28-365	2.5A	28-1190	8A
28-368	3A	28-1195	9A
28-369 NEW	3.5A	28-1200	10A
28-370	4A		

95¢ (1-19 boxes) 75¢ (20-199 boxes) 60¢ (200 boxes-up)

E. UL Listed GMA—20mm x 5mm

■ 250V

Order #	Amperage Rating	Order #	Amperage Rating
28-0453	.25A	28-0472 NEW	3.5A
28-0455	.5A	28-0473	4A
28-0458	.75A	28-0474 NEW	4.5A
28-0460	1A	28-0475	5A
28-0463	1.5A	28-0476 NEW	5.5A
28-0464	1.6A	28-0478	6A
28-0465	2A	28-0479 NEW	6.5A
28-0468	2.5A	28-0480	7A
28-0470	3A	28-1205	8A
28-0471	3.15A		

\$1.60 (1-19 boxes) \$1.40 (20-199 boxes) \$1.20 (200 boxes-up)

F. GMA Pigtail—20mm x 5mm

Order #	Amperage Rating	Order #	Amperage Rating
28-865	.5A	28-879	4A
28-867	.75A	28-870 NEW	4.5A
28-869	1A	28-881	5A
28-871	1.5A	28-872 NEW	5.5A
28-873	2A	28-874 NEW	6A
28-875	2.5A	28-876 NEW	6.5A
28-877	1A	28-878 NEW	7A
28-866 NEW	3A	28-880 NEW	8A
28-868 NEW	3.5A		

90¢ (1-19 boxes) 70¢ (20-199 boxes) 55¢ (200 boxes-up)

G. GMA Slow Blowing—20mm x 5mm

Order #	Amperage Rating	Order #	Amperage Rating
28-0325	1A	28-0345	3A
28-0330	1.5A	28-0350	4A
28-0335	2A	28-0355	5A
28-0340	2.5A		

\$2.25 (1-19 boxes) \$1.95 (20-199 boxes) \$1.75 (200 boxes-up)

H. AGX—1" x ¼"

Order #	Amperage Rating	Order #	Amperage Rating
28-0370	.25A	28-0415	4A
28-0375	.5A	28-0420	5A
28-0380	.75A	28-0425	6A
28-0385	1A	28-0430	7A
28-0390	1.5A	28-0435	8A
28-0395	2A	28-0440	10A
28-0400	2.5A	28-0445	15A
28-0405	3A	28-0450	20A
28-0410	3.5A		

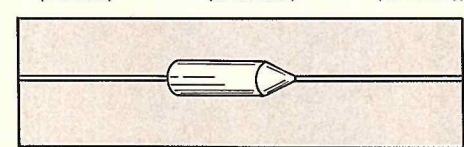
\$1.00 (1-19 boxes) 80¢ (20-199 boxes) 60¢ (200 boxes-up)

J. Pico/Micro—.281" x .093"

■ Subminiature axial fuses for circuits where space is limited ■ 125V

Order #	Amperage Rating	Order #	Amperage Rating
28-0590	.125A	28-0615	1.5A
28-0595	.25A	28-0620	2A
28-0598	.375A	28-0625	2.5A
28-0600	.5A	28-0630	3A
28-0605	.75A	28-0635	4A
28-0610	1A		

\$2.95 (1-19 boxes) \$2.75 (20-199 boxes) \$2.55 (200 boxes-up)

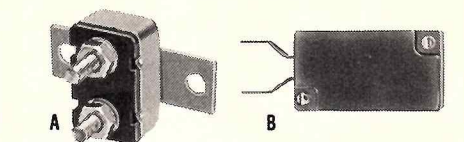


ERS® Thermal Fuses

■ Used in heat guns, hair dryers and other small household appliances ■ Sorry—no mixing of values for quantity pricing

Order #	GE	Original #	Opening Temperature F°	C°
ERS8063	—	4146	151	66
ERS8076	—	4168	171	77
ERS8085	—	4191	196	91
ERS8108	—	4227	229	109
ERS8149	GE-4300A	4300	306	152
ERS8181	—	4358A	363	184
ERS8213	GE-4415A	4415	421	216
ERS8226	—	4438	443	228
ERS8242	—	4468	464	240

96¢ (1-4) 86¢ (5-9) 78¢ (10-29) 70¢ (30-99)



A. High Current Circuit Breakers

■ Auto resetting circuit breakers ■ For use with 13.8VDC

Order #	Current	Order #	Current
60-485	15A	60-500	30A
60-490	20A	60-505	40A
60-495	25A	60-510	45A

\$2.95 (1-9) \$2.45 (10-up)

B. Low Current Circuit Breakers

■ Auto resetting circuit breakers ■ For use up to 50V

Order #	Hold Current	Order #	Hold Current
60-515	.50A	60-535	1.5A
60-520	.70A	60-540	2A
60-525	.85A	60-545	2.5A
60-530	1A		

\$1.95 (1-9) \$1.45 (10-up)



LAMPS

Incandescent Lamps

Sorry—no mixing of types for quantity pricing.

Fig.	Order #	Description	Replaces #	Voltage	Current	(1-9)	Price (10-99)	(100-up)
A	25-010	Bayonet	44	6.3V	250mA	.38	.33	.28
A	25-020	Bayonet	47	6.3V	150mA	.37	.32	.27
A	25-435	Bayonet	—	8V	800mA	.37	.32	.27
A	25-030	Bayonet	—	12V	120mA	.38	.33	.28
B	25-465	Screw type	—	2.2V	250mA	.75	.70	.65
C	25-040	Screw type	46	6.3V	250mA	.37	.32	.27
C	25-440	Screw type	—	8V	300mA	.36	.31	.26
C	25-045	Screw type	52	12V	110mA	.38	.33	.28
D	25-050	Bi pin	—	6V	80mA	.52	.47	.37
D	25-060	Bi pin	—	8V	80mA	.52	.47	.37
D	25-065	Bi pin	—	12V	40mA	.35	.30	.25
D	25-070	Bi pin	—	12V	80mA	.56	.51	.41
E	25-080	Fuse type	—	6V	250mA	.43	.38	.33
E	25-090	Fuse type	—	8V	250mA	.43	.38	.33
E	25-100	Fuse type	—	12V	150mA	.43	.38	.33
F	25-130	Sub miniature	—	6.3V	70mA	.43	.38	.33
F	25-140	Sub miniature	—	8V	70mA	.43	.38	.33
F	25-150	Sub miniature	—	12V	70mA	.43	.38	.33
F	25-485	Sub mini stereo indicator	—	6.3V	35mA	.40	.38	.29
F	25-160	Sub mini stereo indicator	—	8V	35mA	.43	.38	.33
F	25-490	Sub mini stereo indicator	—	12V	35mA	.40	.38	.29
F	25-495	Grain of wheat	—	6.3V	35mA	.40	.38	.29
F	25-500	Grain of wheat	—	8V	35mA	.40	.38	.29
F	25-505	Grain of wheat	—	12V	35mA	.40	.38	.29
G	36-280	Key type phone lamp	—	10V	—	.95	.85	.75
H	25-205	Flashlight lamp	PR12	2.47V	300mA	.35	.30	.25
H	25-470	Flashlight lamp	—	6V	500mA	.44	.39	.34
H	25-220	Halogen flashlight	—	5.5V	1A	4.90	4.40	4.40
J	25-210	Flashlight lamp	14	2.47V	300mA	.53	.48	.43
J	25-215	Flashlight lamp	50	7.5V	220mA	.55	.50	.45
K	29-416	Bi pin flashlight	—	3V	—	2.75	2.75	2.75
L	25-225	Bayonet G bulb	51	7.5V	220mA	.37	.32	.27
L	25-230	Bayonet G bulb	53	14V	120mA	.40	.35	.30
M	25-445	Level meter lamp	—	6.3V	250mA	.45	.40	.35
M	25-450	Level meter lamp	—	8V	250mA	.43	.38	.33
M	25-455	Level meter lamp	—	12V	150mA	.37	.32	.27
N	25-235	VCR sensing lamp	—	6V	150mA	.84	.74	.64
O	25-240	VCR sensing lamp	—	6V	150mA	.84	.74	.64
P	25-245	VCR dial lamp	—	6V	—	.85	.75	.65
Q	32-635	JVC type sensing lamp/8" lead wire	—	12V	—	1.43	1.28	1.05
R	32-1230	Sharp type sensing lamp	—	—	—	2.15	1.65	1.65
S	21-1135	Halogen microfiche bulb	FLT	13.8V	1.8A	14.80	13.80	12.40

Neon Lamps

T	25-170	Neon with resistor	NE2	117VAC	—	.31	.26	.21
U	25-400	Red indicator	—	117VAC	—	1.60	1.30	1.15
U	25-405	Amber/red indicator	—	117VAC	—	1.35	1.00	.85

LED Lamps

V	25-110	Red LED 5mm	—	2.5V	—	.41	.36	.27
V	25-120	Green LED 5mm	—	2.5V	—	.41	.36	.27
V	25-125	Yellow LED 5mm	—	2.5V	—	.41	.36	.27
V	25-280	Red and green dual color 5mm	—	2.5V	—	.80	.75	.65
V	25-475	Infrared 5mm (five per pkg.)	—	1.7V	100mA	2.65 per pkg.		
V	25-480	Infrared 5mm (wide angle, five per pkg.)	—	1.7V	100mA	2.65 per pkg.		
W	25-255	Red 3mm	—	2.5V	—	.25	.20	.16
W	25-257	Green 3mm	—	2.5V	—	.27	.22	.18
X	25-264	Red rectangular	—	2.5V	—	.34	.29	.24
X	25-262	Green rectangular	—	2.5V	—	.30	.25	.20
Y	25-415	Red panel mount	—	2.5V	—	1.95	1.50	1.25
Y	25-420	Green panel mount	—	2.5V	—	2.60	2.15	1.90
Y	25-425	Yellow panel mount	—	2.5V	—	1.95	1.50	1.25
Z	25-300	Seven segment LED common cathode/red	—	3V	—	1.95	1.50	1.25
Z	25-305	Seven segment LED common anode/red	—	3V	—	1.95	1.50	1.25
AA	25-310	Dual LED common anode	—	3V	—	3.45	3.15	2.85
AA	25-315	Dual LED common cathode	—	3V	—	3.45	3.15	2.85



MICROWAVE OVEN PARTS

Replacements Magnetrons

These magnetrons will replace most types on the market today. Just match up the mountings and direction of air flow to determine which replacement is right for your particular application. These magnetrons are intended for use in microwave ovens with a typical oven power of 600-700W; 950W maximum. **Note:** These magnetrons do not contain an internal rectifier.



Dimensions:

- Base: 3 3/4" (W) x 4" (H) x 3 1/8" (D)
- Center of pins: 1 11/32" (W) x 4 1/2" (L)

#75-010

\$65⁵⁰ (ea.) \$59⁹⁵ (2-up)



Dimensions:

- Base: 4 3/4" (Dia.) ■ Center of pins: 1 11/32" (W) x 4 1/2" (L)

#75-250

\$69⁹⁵ (ea.) \$64⁹⁵ (2-up)

Microwave Oven Diodes

■ Popular diodes used in microwave ovens ■ Replaces ECG® 540, 541, 542, 543, 544, 547, and 548

Order #	Price	
	(1-4)	(5-9)
ERS540	\$27.50	\$23.35
ERS541	8.48	7.63
ERS542	21.80	19.62
ERS543	20.50	18.45
ERS544	23.85	20.25
ERS547	19.95	17.96
ERS548	8.92	8.03

Microwave Thermal Cutoffs

■ Replacements for defective thermal cutoffs on magnetrons ■ 15A, 125V

Order #	Cutoff Temperature
75-055	80°C
75-050	100°C
75-045	140°C

\$2⁹⁵ (1-4) \$2⁴⁵ (5-up)



Microwave Oven Leak Detector

■ Economical leak detector used to check door gaskets and latches on all brands of microwave ovens. Not intended for use as a certification instrument.

Features: ■ Instantly detects microwave leakage ■ Display packaged

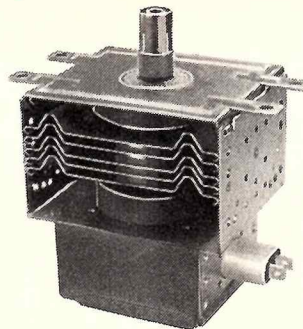
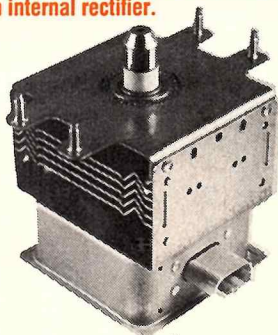
#72-220 \$9⁶⁵ (1-9) \$7⁷⁵ (10-up)

Microwave Oven Door Switch

- Micro switch used in microwave ovens to stop oven when door is open
- Normally open or normally closed
- 15A, 125/250VAC

#26-585

\$1⁷⁹ (1-9) \$1⁶⁹ (10-49) \$1⁵⁵ (50-up)



Panasonic. Magnetrons

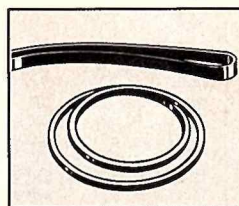
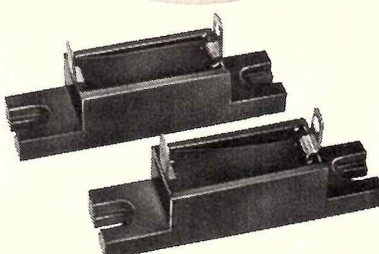
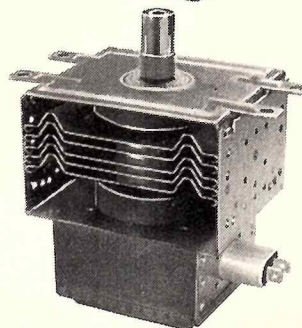
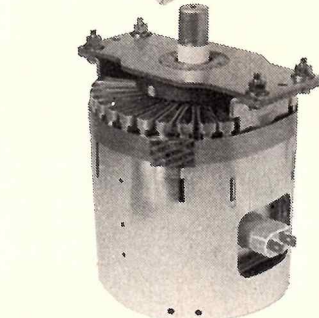
■ Panasonic magnetrons are used in many different name brand microwaves

Panasonic. #2M204-M1

#75-065 \$89⁹⁵ (ea.)

Panasonic. #2M210-M1

#75-070 \$79⁹⁵ (ea.)



Panasonic. Microwave Oven Belts

Order #	Panasonic #	Price
42-1285	ANE4060B60AP	\$2.25
42-1290	ANE4110-850	1.95
42-1295	ANE4110-860	3.95



Panasonic. Microwave Oven Parts

Order #	Panasonic #	Description	Price
25-530	ANE6030B60AP	Light Bulb	\$3.50
26-600	ANE6142-F60	Door Switch	4.50
75-085	A61454000AP	Thermal Cut-Off	2.25
75-090	A61454740AP	Thermal Cut-Off	3.25



Panasonic. High Voltage Capacitors

■ 2000WVAC

Order #	Panasonic #	μF	Price
75-080	A60904650AP	.951	\$14.95
75-075	A60904010AP	.95	12.95

Panasonic. MWO Cavity Paint

■ Specially formulated microwave oven paint used to cover chips or flakes in microwave oven cavity

■ Ivory white ■ Panasonic #ANE0887L10AP

■ 6.8 oz. aerosol

Note: Due to the chemical content, this product can only be shipped by UPS Ground Service.

#75-095 \$18⁵⁰ (ea.)

IN CANADA CALL TOLL FREE
1-800-824-9491

CALL TOLL FREE 1-800-543-4330

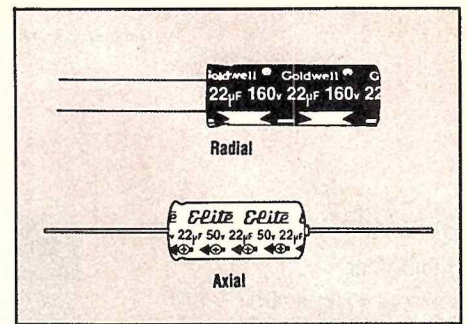


ELECTROLYTIC CAPACITORS

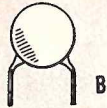
These high quality electrolytic capacitors are excellent for use in repair, experimentation and prototype development. Sorry — no mixing of values for quantity pricing.

Order #	Voltage	μF	Axial or Radial	(1-4)	Price (5-9)	(10-24)
31-0350	16V	.47	A	.45	.38	.20
31-0355	16V	.47	R	.45	.38	.20
31-0360	16V	1	A	.45	.38	.20
31-0365	16V	1	R	.45	.38	.20
31-0370	16V	2.2	A	.45	.38	.20
31-0375	16V	2.2	R	.45	.38	.20
31-0380	16V	3.3	A	.45	.38	.20
31-0385	16V	3.3	R	.45	.38	.20
31-0390	16V	4.7	A	.45	.38	.20
31-0395	16V	4.7	R	.45	.38	.20
31-040	16V	10	A	.45	.38	.20
31-041	16V	10	R	.45	.38	.20
31-042	16V	22	A	.45	.38	.20
31-045	16V	22	R	.45	.38	.20
31-030	16V	33	A	.45	.38	.20
31-035	16V	33	R	.45	.38	.20
31-040	16V	47	A	.45	.38	.20
31-045	16V	47	R	.45	.38	.20
31-050	16V	100	A	.68	.55	.43
31-055	16V	100	R	.68	.55	.43
31-060	16V	220	A	.68	.55	.43
31-065	16V	220	R	.68	.55	.43
31-075	16V	330	R	.75	.70	.60
31-080	16V	470	A	.75	.70	.60
31-085	16V	470	R	.75	.70	.60
31-090	16V	1000	A	.95	.90	.68
31-095	16V	1000	R	.95	.90	.68
31-100	16V	2200	A	1.00	.95	.75
31-105	16V	2200	R	1.00	.95	.75
31-115	16V	3300	R	1.80	1.75	1.50
31-120	16V	4700	A	2.05	1.95	1.70
31-125	16V	4700	R	2.05	1.95	1.70
31-0400	25V	.47	A	.50	.42	.23
31-0405	25V	.47	R	.50	.42	.23
31-0410	25V	1	A	.50	.42	.23
31-0415	25V	1	R	.50	.42	.23
31-0420	25V	2.2	A	.50	.42	.23
31-0425	25V	2.2	R	.50	.42	.23
31-0430	25V	3.3	A	.50	.42	.23
31-0435	25V	3.3	R	.50	.42	.23
31-0440	25V	4.7	A	.50	.42	.23
31-0445	25V	4.7	R	.50	.42	.23
31-130	25V	10	A	.50	.42	.23
31-135	25V	10	R	.50	.42	.23
31-140	25V	22	A	.50	.42	.23
31-145	25V	22	R	.50	.42	.23
31-150	25V	33	A	.55	.45	.30
31-155	25V	33	R	.55	.45	.30
31-160	25V	47	A	.55	.45	.30
31-165	25V	47	R	.55	.45	.30
31-170	25V	100	A	.75	.62	.50
31-175	25V	100	R	.75	.62	.50
31-180	25V	220	A	.75	.62	.50
31-185	25V	220	R	.75	.62	.50
31-190	25V	330	A	.85	.80	.70
31-195	25V	330	R	.85	.80	.70
31-200	25V	470	A	.85	.80	.70
31-205	25V	470	R	.85	.80	.70
31-210	25V	1000	A	1.25	1.19	.95
31-215	25V	1000	R	1.25	1.19	.95
31-220	25V	2200	A	1.30	1.25	1.00
31-230	25V	3300	A	1.99	1.90	1.80
31-235	25V	3300	R	1.99	1.90	1.80
31-240	25V	4700	A	2.30	2.20	2.05
31-245	25V	4700	R	2.30	2.20	2.05
31-0450	35V	.47	A	.55	.45	.28
31-0455	35V	.47	R	.55	.45	.28
31-0460	35V	1	A	.55	.45	.28
31-0465	35V	1	R	.55	.45	.28
31-0470	35V	2.2	A	.55	.45	.28
31-0475	35V	2.2	R	.55	.45	.28
31-0480	35V	3.3	A	.55	.45	.28
31-0485	35V	3.3	R	.55	.45	.28
31-0490	35V	4.7	A	.55	.45	.28
31-0495	35V	4.7	R	.55	.45	.28
31-250	35V	10	A	.55	.45	.28
31-255	35V	10	R	.55	.45	.28
31-260	35V	22	A	.55	.45	.28
31-265	35V	22	R	.55	.45	.28
31-270	35V	33	A	.55	.45	.28
31-275	35V	33	R	.55	.45	.28
31-280	35V	47	A	.55	.45	.28
31-285	35V	47	R	.55	.45	.28

Order #	Voltage	μF	Axial or Radial	(1-4)	Price (5-9)	(10-24)
31-290	35V	100	A	.85	.73	.58
31-295	35V	100	R	.85	.73	.58
31-300	35V	220	A	.85	.73	.58
31-305	35V	220	R	.85	.73	.58
31-310	35V	330	A	.95	.85	.75
31-315	35V	330	R	.95	.85	.75
31-320	35V	470	A	.95	.85	.75
31-325	35V	470	R	.95	.85	.75
31-330	35V	1000	A	1.30	1.25	1.00
31-335	35V	1000	R	1.30	1.25	1.00
31-340	35V	2200	A	1.45	1.35	1.15
31-345	35V	2200	R	1.45	1.35	1.15
31-350	35V	3300	A	2.35	2.22	2.09
31-355	35V	3300	R	2.35	2.22	2.09
31-360	35V	4700	A	2.75	2.50	2.35
31-365	35V	4700	R	2.75	2.50	2.35
31-370	50V	.47	A	.60	.50	.35
31-375	50V	.47	R	.60	.50	.35
31-380	50V	1	A	.60	.50	.35
31-385	50V	1	R	.60	.50	.35
31-390	50V	2.2	A	.60	.50	.35
31-395	50V	2.2	R	.60	.50	.35
31-400	50V	3.3	A	.60	.50	.35
31-405	50V	3.3	R	.60	.50	.35
31-410	50V	4.7	A	.60	.50	.35
31-415	50V	4.7	R	.60	.50	.35
31-0575	50V	6.8	A	.60	.50	.35
31-0570	50V	6.8	R	.60	.50	.35
31-420	50V	10	A	.60	.50	.35
31-425	50V	10	R	.60	.50	.35
31-430	50V	22	A	.60	.50	.35
31-435	50V	22	R	.60	.50	.35
31-440	50V	33	A	.60	.50	.35
31-445	50V	33	R	.60	.50	.35
31-450	50V	47	A	.95	.85	.69
31-455	50V	47	R	.95	.85	.69
31-460	50V	100	A	.95	.85	.69
31-465	50V	100	R	.95	.85	.69
31-470	50V	220	A	.95	.85	.69
31-475	50V	220	R	.95	.85	.69
31-480	50V	330	A	1.20	1.15	.90
31-485	50V	330	R	1.20	1.15	.90
31-490	50V	470	A	1.20	1.15	.90
31-495	50V	470	R	1.20	1.15	.90
31-500	50V	1000	A	1.65	1.50	1.35
31-505	50V	1000	R	1.65	1.50	1.35
31-510	50V	2200	A	1.95	1.85	1.70
31-515	50V	2200	R	1.90	1.85	1.70
31-520	50V	3300	A	3.20	3.00	2.90
31-525	50V	3300	R	3.20	3.00	2.90
31-530	50V	4700	A	3.60	3.40	3.15
31-535	50V	4700	R	3.60	3.40	3.15
31-540	50V	6800	R	4.50	4.25	3.95
31-1000	100V	.47	A	.65	.50	.42
31-1005	100V	.47	R	.65	.50	.42
31-1010	100V	1	A	.65	.50	.42
31-1015	100V	1	R	.65	.50	.42
31-1020	100V	2.2	A	.65	.50	.42
31-1025	100V	2.2	R	.65	.50	.42
31-1030	100V	3.3	A	.65	.50	.42
31-1035	100V	3.3	R	.65	.50	.42
31-1040	100V	4.7	A	.65	.50	.42
31-1045	100V	4.7	R	.65	.50	.42
31-1050	100V	10	A	.65	.50	.42
31-1055	100V	10	R	.65	.50	.42
31-1060	100V	22	A	.75	.60	.52
31-1065	100V	22	R	.75	.60	.52
31-1070	100V	33	A	.75	.60	.52
31-1075	100V	33	R	.75	.60	.52
31-1080	100V	47	A	1.30	1.20	1.10
31-1085	100V	47	R	1.30	1.20	1.10
31-1090	100V	100	A	1.30	1.20	1.10
31-1095	100V	100	R	1.30	1.20	1.10
31-1100	100V	220	A	1.35	1.25	1.15
31-1105	100V	220	R	1.35	1.25	1.15
31-1110	100V	330	A	1.35	1.25	1.15
31-1115	100V	330	R	1.35	1.25	1.15
31-1120	100V	470	A	1.35	1.25	1.15
31-1125	100V	470	R	1.35	1.25	1.15
31-1130	100V	1000	A	1.75	1.65	1.45
31-1135	100V	1000	R	1.75	1.65	1.45
31-1330	160V	1	R	.65	.55	.50
31-1335	160V	2.2	R	.65	.55	.50



Order #	Voltage	μF	Axial or Radial	(1-4)	Price (5-9)	(10-24)
31-1340	160V	3.3	R	\$.65	\$.55	\$.50
31-1345	160V	4.7	R	.65	.55	.50
31-1350	160V	6.8	R	.65	.55	.50
31-1355	160V	10	R	.65	.50	.50
31-1360	160V	22	R	1.50	1.40	1.33
31-1365	160V	33	R	1.50	1.40	1.33
31-1370	160V	47	R	1.75	1.65	1.45
31-0510	200V	560	R	6.50	5.95	5.50
31-0500	200V	680	R	6.50	5.95	5.50
31-1840	250V	1	A	.80	.65	.55
31-1380	250V	1	R	.80	.65	.55
31-1845	250V	2.2	A	.80	.65	.55
31-1385	250V	2.2	R	.80	.65	.55
31-1850	250V	3.3	A	.85	.70	.60
31-1390	250V	3.3	R	.85	.70	.60
31-1855	250V	4.7	A	.85	.70	.60
31-1395	250V	4.7	R	.85	.70	.60
31-1400	250V	6.8	R	.85	.70	.60
31-1860	250V	10	A	.95	.85	.69
31-1405	250V	10	R	.95	.85	.69
31-1865	250V	22	A	1.90	1.85	1.60
31-1410	250V	22	R	1.90	1.85	1.60
31-1870	250V	33	A	2.40	2.30	2.05
31-1415	250V	33	R	2.40	2.30	2.05
31-1875	250V	47	A	2.70	2.55	2.30
31-1420	250V	47	R	2.70	2.55	2.30
31-1880	250V	100	A	2.90	2.75	2.60
31-1885	250V	100	R	2.90	2.75	2.60
31-1890	250V	220	A	3.50	3.35	3.15
31-1895	250V	220	R	3.50	3.35	3.15
31-1900	250V	330	A	4.50	3.95	3.50
31-1905	250V	330	R	4.50	3.95	3.50
31-0505	250V	470	R	5.55	5.30	5.05
31-0565	250V	800	R	7.45	7.20	6.95
31-1910	350V	.47	A	.85	.75	.65
31-1635	350V	.47	R	.85	.75	.65
31-1915	350V	1	A	.85	.75	.65
31-1640	350V	1	R	.85	.75	.65
31-1920	350V	2.2	A	.85	.75	.65
31-1645	350V	2.2	R	.85	.75	.65
31-1925	350V	3.3	A	.99	.85	.75
31-1650	350V	3.3	R	.99	.85	.75
31-1930	350V	4.7	A	1.20	1.05	.90
31-1655	350V	4.7	R	1.20	1.05	.90
31-1935	350V	10	A	1.60	1.45	1.35
31-1660	350V	10	R	1.60	1.45	1.35
31-1940	350V	22	A	1.95	1.75	1.60
31-1665	350V	22	R	1.95	1.75	1.60
31-1945	350V	33	A	3.10	2.95	2.80
31-1670	350V	33	R	3.10	2.95	2.80
31-1950	350V	47	A	3.50	3.35	3.20
31-1675	350V	47	R	3.50	3.35	3.20
31-1955	350V	100	A	3.75	3.50	3.30
31-1960	350V	100	R	3.75	3.50	3.30
31-1965	350V	220	A	4.50	4.30	4.15
31-1970	350V	220	R	4.50	4.30	4.15
31-1975	350V	330	R	6.10	5.95	5.45
31-1980	450V	1	A	.90	.80	.70
31-1680	450V	1	R	.90	.80	.70
31-1985	450V	2.2	A	.90	.80	.70
31-1685	450V	2.2	R	.90	.80	.70
31-1990	450V	4.7	A	2.70	2.35	1.90
31-1690	450V	4.7	R	2.70	2.35	1.90
31-1995	450V	10	A	2.80	2.55	2.00
31-1695	450V	10	R	2.80	2.55	2.00
31-2020	450V	30	A	2.85	2.60	2.05
31-550	450V	47	A	3.55	3.40	3.25
31-2000	450V	47	R	3.55	3.40	3.25
31-560	450V	80	A	3.75	3.60	3.35
31-570	450V	100	A	4.25	3.95	3.80
31-2005	450V	100	R	4.25	3.95	3.80
31-2010	450V	220	R	9.75	9.15	8.50
31-2015	450V	330	R	9.75	9.15	8.50



A. Surface Mount Capacitors

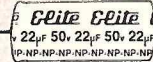
■ Ten per bag ■ Sorry—no mixing of values for quantity pricing

Order #	Voltage	Value	Price Per Bag		
			(1-4)	(5-9)	(10-24)
31-1730	50V	10pF	\$1.65	\$1.50	\$1.35
31-1735	50V	12pF	1.65	1.50	1.35
31-1740	50V	18pF	1.65	1.50	1.35
31-1745	50V	33pF	1.65	1.50	1.35
31-1750	50V	39pF	1.65	1.50	1.35
31-1755	50V	47pF	1.65	1.50	1.35
31-1760	50V	68pF	1.65	1.50	1.35
31-1765	50V	100pF	1.65	1.50	1.35
31-1770	50V	150pF	1.65	1.50	1.35
31-1775	50V	220pF	1.65	1.50	1.35
31-1780	50V	270pF	1.65	1.50	1.35
31-1785	50V	330pF	1.65	1.50	1.35
31-1790	50V	470pF	1.65	1.50	1.35
31-1795	50V	1000pF	1.65	1.50	1.35
31-1800	50V	1800pF	1.65	1.50	1.35
31-1805	50V	2200pF	1.65	1.50	1.35
31-1810	50V	3300pF	1.65	1.50	1.35
31-1815	50V	8200pF	1.65	1.50	1.35
31-1820	50V	10000pF	1.65	1.50	1.35
31-1825	50V	.047μF	1.65	1.50	1.35
31-1830	50V	.1μF	1.65	1.50	1.35

B. Ceramic Disk Capacitors

■ Five per bag ■ Sorry—no mixing of values for quantity pricing

Order #	Voltage	Value	Price Per Bag		
			(1-4)	(5-9)	(10-24)
31-1440	1000V	1pF	\$1.75	\$1.65	\$1.50
31-1445	1000V	1.5pF	.75	.65	.50
31-1450	1000V	2.2pF	.75	.65	.50
31-1455	1000V	3.3pF	.75	.65	.50
31-1460	1000V	3.9pF	.75	.65	.50
31-1465	1000V	4.7pF	.75	.65	.50
31-1470	1000V	5.6pF	.75	.65	.50
31-1475	1000V	6.8pF	.75	.65	.50
31-1480	1000V	8.2pF	.75	.65	.50
31-1485	1000V	10pF	.75	.65	.50
31-1490	1000V	15pF	.75	.65	.50
31-1495	1000V	22pF	.75	.65	.50
31-1500	1000V	33pF	.75	.65	.50
31-1505	1000V	39pF	.75	.65	.50
31-1510	1000V	47pF	.75	.65	.50
31-1515	1000V	56pF	.75	.65	.50
31-1520	1000V	68pF	.75	.65	.50
31-1525	1000V	82pF	.75	.65	.50
31-1530	1000V	100pF	.75	.65	.50
31-1535	1000V	150pF	.75	.65	.50
31-1540	1000V	220pF	.75	.65	.50
31-1545	1000V	330pF	.75	.65	.50
31-1550	1000V	390pF	.75	.65	.50
31-1555	1000V	470pF	.75	.65	.50
31-1560	1000V	560pF	.75	.65	.50
31-1565	1000V	680pF	.75	.65	.50
31-1570	1000V	820pF	.75	.65	.50
31-1575	1000V	.001μF	.75	.65	.50
31-1580	1000V	.0022μF	.75	.65	.50
31-1585	1000V	.0033μF	.75	.65	.50
31-1590	1000V	.0047μF	.99	.85	.75
31-1595	1000V	.0056μF	.99	.85	.75
31-1600	1000V	.0068μF	.99	.85	.75
31-1605	1000V	.0082μF	.99	.85	.75
31-1610	1000V	.01μF	.99	.85	.75
31-1615	1000V	.022μF	1.80	1.65	1.50
31-1620	1000V	.033μF	1.80	1.65	1.50
31-1625	1000V	.047μF	2.50	2.25	1.95
31-1630	500V	.1μF	2.95	2.80	2.60



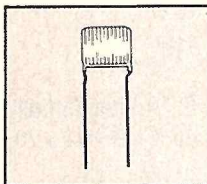
Non-Polarized Crossover Capacitors

■ For use in speaker system crossovers ■ Axial
■ Sorry—no mixing of values for quantity pricing

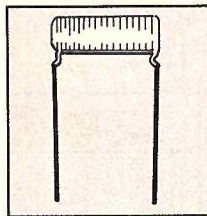
Order #	Voltage	μF	Price		
			(1-9)	(5-9)	(10-24)
31-580	50V	.47	\$.65	\$.60	\$.55
31-590	50V	1	.65	.60	.55
31-600	50V	2.2	.65	.60	.55
31-610	50V	3.3	.65	.60	.55
31-2025	50V	4	.65	.60	.55
31-620	50V	4.7	.65	.60	.55
31-2030	50V	6.8	.65	.60	.55
31-630	50V	10	.85	.80	.75
31-2035	50V	14	.85	.80	.75
31-640	50V	22	.85	.80	.75
31-650	50V	33	.85	.80	.75
31-660	50V	47	.85	.80	.75
31-2040	50V	100	1.70	1.50	1.40
31-2045	50V	200	2.60	2.30	2.00
31-1290	100V	.47	1.00	.95	.80
31-1295	100V	1	1.00	.95	.80
31-1300	100V	2.2	1.00	.95	.80
31-1305	100V	3.3	1.00	.95	.80
31-2050	100V	4	1.00	.95	.80
31-1310	100V	4.7	1.00	.95	.80
31-2055	100V	6.8	1.00	.95	.80
31-1315	100V	10	1.05	.99	.90
31-2060	100V	14	1.05	.99	.90
31-1320	100V	22	1.05	.99	.90
31-2065	100V	100	2.75	2.60	2.40
31-2070	100V	200	3.40	3.25	3.00

Tantalum Capacitors

■ Sorry—no mixing of values for quantity pricing



Order #	Voltage	μF	Price		
			(1-4)	(5-9)	(10-24)
31-0600	50V	.1	\$.28	\$.25	\$.21
31-0605	50V	.15	.30	.26	.22
31-0610	50V	.22	.30	.26	.22
31-0615	50V	.33	.30	.26	.22
31-0620	50V	.47	.33	.29	.24
31-0625	50V	.68	.37	.32	.27
31-0630	50V	1.0	.50	.44	.37
31-0635	50V	1.5	.84	.74	.63
31-0640	50V	2.2	.90	.79	.67
31-0645	50V	3.3	1.48	1.29	1.10
31-0650	50V	4.7	1.95	1.71	1.46
31-0655	50V	6.8	4.03	3.53	3.02
31-0660	50V	10	5.56	4.87	4.17
31-0665	35V	15	1.88	1.65	1.41
31-0670	35V	22	2.56	2.24	1.92
31-0675	35V	33	4.46	3.90	3.34
31-0680	35V	47	8.95	8.19	7.72



Assorted Mylar Caps

■ 50 piece package of assorted voltages and capacitance values
■ Popular sizes

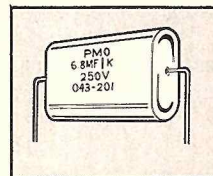
#31-995... \$4²⁵ (1-4 pkgs.) ... \$3⁹⁵ (5-9 pkgs.) ... \$3⁷⁰ (10-24 pkgs.)



Polyester Film Capacitors

■ Sorry—no mixing of values for quantity pricing

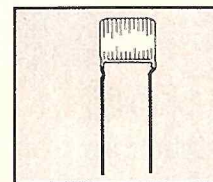
Order #	Voltage	μF	Price		
			(1-4)	(5-9)	(10-24)
31-700	100V	.001	\$.22	\$.20	\$.16
31-710	100V	.0015	.40	.35	.30
31-720	100V	.0022	.25	.22	.17
31-730	100V	.0033	.39	.35	.27
31-740	100V	.0047	.30	.27	.21
31-750	100V	.0068	.41	.36	.31
31-760	100V	.01	.35	.30	.28
31-770	100V	.015	.61	.53	.47
31-790	100V	.022	.35	.30	.28
31-800	100V	.027	.38	.35	.30
31-810	100V	.033	.40	.37	.32
31-820	100V	.047	.40	.37	.32
31-830	100V	.056	.54	.47	.41
31-840	100V	.068	.47	.43	.40
31-850	100V	.1	.48	.45	.41
31-860	100V	.15	.53	.46	.41
31-870	100V	.22	.51	.49	.42
31-880	100V	.33	.65	.55	.50
31-890	100V	.47	.82	.71	.63



Mylar Capacitors

■ Ideal for use in custom crossover networks
■ Axial type ■ Sorry—no mixing of values for quantity pricing

Order #	Voltage	μF	Price		
			(1-4)	(5-9)	(10-24)
31-0595	100V	.01	\$.10	\$.09	\$.08
31-1697	100V	.47	.33	.29	.26
31-1700	150V	1	.67	.62	.58
31-1705	200V	1.5	.83	.77	.71
31-0280	250V	.5	.70	.66	.62
31-0285	250V	1	.85	.80	.75
31-0290	250V	1.5	1.00	.92	.86
31-0295	250V	2.2	1.25	1.19	1.10
31-0300	250V	2.7	1.25	1.20	1.15
31-0305	250V	3	1.62	1.50	1.40
31-1710	250V	3.3	2.05	1.95	1.85
31-0310	250V	4.0	2.15	2.00	1.87
31-1715	250V	4.7	2.60	2.50	2.20
31-0315	250V	5	1.99	1.95	1.85
31-0320	250V	5.6	2.15	2.05	1.95
31-1720	250V	6.8	3.10	2.95	2.75
31-0325	250V	8	3.09	2.87	2.68
31-0330	250V	10	3.73	3.46	3.23
31-0335	250V	12	4.62	4.29	4.00
31-0340	250V	16	6.10	5.85	5.50
31-0585	600V	.047	.54	.48	.43
31-0590	600V	.0773	.45	.41	.37
31-0580	600V	0.1	.78	.69	.63



nichicon
The capacitor choice.

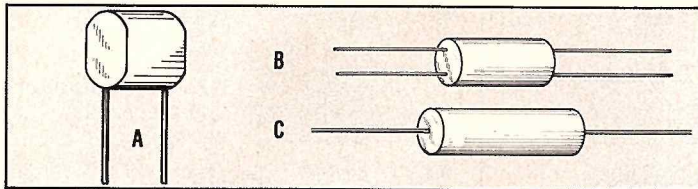
Metalized Film Capacitors

■ Sorry—no mixing of values for quantity pricing

Order #	Voltage	μF	Price		
			(1-4)	(5-9)	(10-24)
31-0525	250V	0.1	\$.38	\$.32	\$.28
31-0530	250V	0.15	.42	.37	.33
31-0535	250V	0.22	.45	.40	.37
31-0540	250V	0.33	.55	.50	.45
31-0545	250V	0.47	.60	.55	.50
31-0550	250V	1.0	.95	.90	.80
31-0555	400V	0.1	.45	.40	.37
31-0560	630V	0.01	.33	.28	.25



CAPACITORS AND RESISTORS



High Voltage Safety Capacitors

Figure	Order #	Replaces	Value
A	33-700	Sony 1-129-950-00	.024 μ F at 1.6KV
A	33-702	Sony 1-129-952-00	.018 μ F at 1.6KV
A	33-704	Sony 1-129-959-00	.029 μ F at 1.6KV
A	33-706	Sony 1-129-960-00	.019 μ F at 1.6KV
A	33-708	Sony 1-130-041	.027 μ F at 1.6KV
A	33-710	Sony 1-129-946-00	.013 μ F at 1.6KV
B	33-720	Sears 20-887-1	.0068-1600 $\pm$ 5%
B	33-722	Sears 20-874-11	.0056-1600 $\pm$ 5%
B	33-724	Magnavox 250663-11	.0086-1600 $\pm$ 5%
B	33-726	Magnavox 250663-17	.0185-1200 $\pm$ 5%
B	33-728	Magnavox 250663-19	.0195-1200 $\pm$ 5%
B	33-730	Magnavox 250663-20	.0235-1200 $\pm$ 5%
B	33-736	Zenith Equiv. 800860	.01-1600 $\pm$ 5%
C	33-732	GE EP25X60	.0051-1200 $\pm$ 5%
C	33-734	GE EP25X75	.0075-1200 $\pm$ 5%
C	33-738	GE EP25X90	.0105-1200 $\pm$ 5%

■ Sorry — no mixing of values for quantity pricing

\$5⁹⁵ (1-9) **\$5⁵⁰** (10-49) **\$4⁹⁵** (50-up)

Capacitor Kit

■ Kit consists of 90 electrolytics, 30 different values, three of each type
 ■ Cabinet contains 15 compartments with dividers ■ Labels included ■ Values: 1 μ f/100V, 2.2 μ f/50V, 3.3 μ f/50V, 4.7 μ f/25V, 4.7 μ f/50V, 5 μ f/35V, 6.8 μ f/50V, 10 μ f/25V, 10 μ f/50V, 18 μ f/40V, 22 μ f/40V, 25 μ f/35V, 33 μ f/25V, 33 μ f/50V, 47 μ f/25V, 47 μ f/50V, 68 μ f/25V, 100 μ f/16V, 150 μ f/25V, 220 μ f/16V, 220 μ f/25V, 330 μ f/25V, 330 μ f/35V, 470 μ f/16V, 470 μ f/35V, 640 μ f/16V, 1000 μ f/16V, 1000 μ f/25V, 1500 μ f/25V, 2200 μ f/16V

#31-0520 **\$24⁹⁵** (kit)



Capacitance Selector Box

A great tool for troubleshooting, experimentation, and prototype development. Select ranges between 100pF and 4.7mF. Uses precision 10% tolerance capacitors.

Features: Voltage: 250VDC at 1-4.7mF; 100VDC at 100pF-.47 ■ Residual capacitance: 40pF internal ■ 90 day warranty

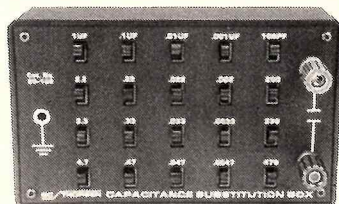
#72-635 **\$54⁷⁵** (ea.)

TENMA Resistance Selector Box

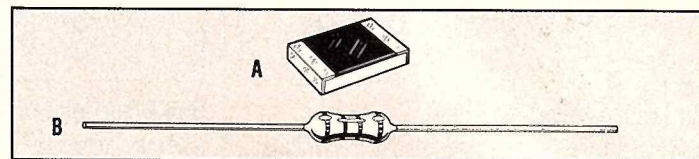
This handy resistance selector box simplifies design and troubleshooting by allowing you to quickly substitute any resistor in a circuit from 1ohm to over 11Mohm; up to 1/2 W.

Features: ■ All resistors are 1% tolerance
 ■ Dimensions: 4" (W) x 6" (H) x 1" (D)
 ■ 90 day warranty

#72-405 **\$34⁹⁵** (ea.)



Note: First two digits are the MCM code number and the digits following the hyphen are the resistance value. Sorry — no mixing of types for quantity pricing.



A. Surface Mount Chip Resistors

■ 5% tolerance ■ 1/8 watt ■ 20 per bag

97-20	97-300	97-910	97-2.7K	97-6.2K	97-15K	97-51K
97-47	97-360	97-1K	97-3K	97-6.8K	97-16K	97-68K
97-62	97-390	97-1.1K	97-3.3K	97-7.5K	97-20K	97-100K
97-75	97-470	97-1.2K	97-3.6K	97-8.2K	97-24K	97-120K
97-82	97-560	97-1.5K	97-3.9K	97-9.1K	97-27K	97-160K
97-100	97-620	97-1.6K	97-4.3K	97-10K	97-30K	97-180K
97-130	97-680	97-2K	97-4.7K	97-11K	97-33K	97-220K
97-180	97-750	97-2.2K	97-5.1K	97-12K	97-39K	97-470K
97-220	97-820	97-2.4K	97-5.6K	97-13K	97-47K	97-750K

\$1⁵⁰ (1-2 bags) **\$1³⁵** (3-5 bags) **\$1²⁵** (6 bags-up)

FOR OUR SURFACE MOUNT RESISTOR KIT SEE PAGE 202

B. 1/8 Watt Carbon Film Resistors

■ 5% tolerance ■ 20 per bag

65-75	65-510	65-3.6K	65-16K	65-91K	65-750K	65-3M
65-100	65-560	65-3.9K	65-18K	65-150K	65-820K	65-3.3M
65-130	65-620	65-4.3K	65-20K	65-160K	65-910K	65-3.6M
65-150	65-680	65-4.7K	65-22K	65-240K	65-1M	65-3.9M
65-160	65-750	65-5.1K	65-24K	65-300K	65-1.1M	65-4.3M
65-180	65-1K	65-6.2K	65-30K	65-330K	65-1.2M	65-4.7M
65-200	65-1.1K	65-6.8K	65-33K	65-360K	65-1.3M	65-5.1M
65-220	65-1.5K	65-7.5K	65-43K	65-390K	65-1.5M	65-5.6M
65-270	65-2K	65-8.2K	65-47K	65-430K	65-1.6M	65-6.2M
65-300	65-2.2K	65-9.1K	65-51K	65-470K	65-1.8M	65-6.8M
65-330	65-2.4K	65-10K	65-62K	65-510K	65-2M	65-7.5M
65-360	65-2.7K	65-11K	65-68K	65-560K	65-2.2M	65-8.2M
65-430	65-3K	65-12K	65-75K	65-620K	65-2.4M	65-9.1M
65-470	65-3.3K	65-13K	65-82K	65-680K	65-2.7M	65-10M

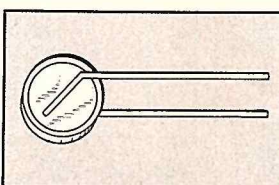
\$1⁰⁰ (1-2 bags) **88¢** (3-5 bags) **80¢** (6 bags-up)

B. 1/4 Watt Carbon Film Resistors

■ 5% tolerance ■ 20 per bag

34-22	34-6.2	34-68	34-750	34-8.2K	34-91K	34-1M
34-27	34-6.8	34-75	34-820	34-9.1K	34-100K	34-1.1M
34-47	34-7.5	34-82	34-910	34-10K	34-110K	34-1.2M
34-68	34-8.2	34-91	34-1K	34-11K	34-120K	34-1.3M
34-82	34-9.1	34-100	34-1.1K	34-12K	34-130K	34-1.5M
34-91	34-10	34-110	34-1.2K	34-13K	34-150K	34-1.6M
34-1.0	34-11	34-120	34-1.3K	34-15K	34-160K	34-1.8M
34-1.1	34-12	34-130	34-1.5K	34-16K	34-180K	34-2M
34-1.2	34-13	34-150	34-1.6K	34-18K	34-200K	34-2.2M
34-1.3	34-15	34-160	34-1.8K	34-20K	34-220K	34-2.4M
34-1.5	34-16	34-180	34-2K	34-22K	34-240K	34-2.7M
34-1.6	34-18	34-200	34-2.2K	34-24K	34-270K	34-3M
34-1.8	34-20	34-220	34-2.4K	34-27K	34-300K	34-3.3M
34-2.0	34-22	34-240	34-2.7K	34-30K	34-330K	34-3.6M
34-2.2	34-24	34-270	34-3K	34-33K	34-360K	34-3.9M
34-2.4	34-27	34-300	34-3.3K	34-36K	34-390K	34-4.3M
34-2.7	34-30	34-330	34-3.6K	34-39K	34-430K	34-4.7M
34-3.0	34-33	34-360	34-3.9K	34-43K	34-470K	34-5.1M
34-3.3	34-36	34-390	34-4.3K	34-47K	34-510K	34-5.6M
34-3.6	34-39	34-430	34-4.7K	34-51K	34-560K	34-6.2M
34-3.9	34-43	34-470	34-5.1K	34-56K	34-620K	34-6.8M
34-4.3	34-47	34-510	34-5.6K	34-62K	34-680K	34-7.5M
34-4.7	34-51	34-560	34-6.2K	34-68K	34-750K	34-8.2M
34-5.1	34-56	34-620	34-6.8K	34-75K	34-820K	34-9.1M
34-5.6	34-62	34-680	34-7.5K	34-82K	34-910K	34-10M

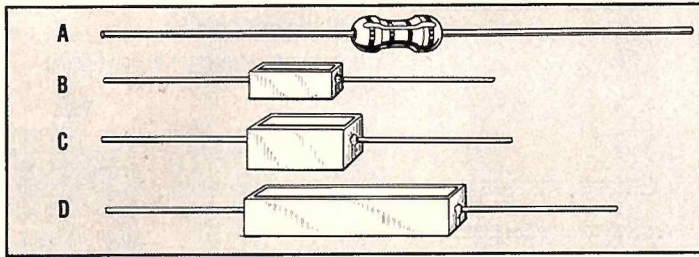
\$1¹⁰ (1-2 bags) **95¢** (3-5 bags) **85¢** (6 bags-up)



Global Thermistor

■ 120ohm cold ■ Replacement for original equipment thermistor in many automatic degaussing circuits ■ 25ohm at 20°C

#33-650 **\$1⁵⁴** (1-9) **\$1³⁸** (10-49) **\$1²¹** (50-up)



Sorry—no mixing of resistor values for quantity pricing.

A. 1/4 Watt Flameproof Resistors

■ 5% tolerance ■ 20 per bag

66-.22	66-7.5	66-82	66-820	66-9.1K	66-100K	66-1.1M
66-.33	66-8.2	66-91	66-910	66-10K	66-110K	66-1.2M
66-.47	66-9.1	66-100	66-1K	66-11K	66-120K	66-1.3M
66-.51	66-10	66-110	66-1.1K	66-12K	66-130K	66-1.5M
66-1.0	66-11	66-120	66-1.2K	66-13K	66-150K	66-1.6M
66-1.1	66-12	66-130	66-1.3K	66-15K	66-160K	66-1.8M
66-1.2	66-13	66-150	66-1.5K	66-16K	66-180K	66-2M
66-1.3	66-15	66-160	66-1.6K	66-18K	66-200K	66-2.2M
66-1.5	66-16	66-180	66-1.8K	66-20K	66-220K	66-2.4M
66-1.6	66-18	66-200	66-2K	66-22K	66-240K	66-2.7M
66-1.8	66-20	66-220	66-2.2K	66-24K	66-270K	66-3M
66-2.0	66-22	66-240	66-2.4K	66-27K	66-300K	66-3.3M
66-2.2	66-24	66-260	66-2.7K	66-30K	66-330K	66-3.6M
66-2.4	66-27	66-270	66-3K	66-33K	66-360K	66-3.9M
66-2.7	66-30	66-300	66-3.3K	66-36K	66-390K	66-4.3M
66-3.0	66-33	66-330	66-3.6K	66-39K	66-430K	66-4.7M
66-3.3	66-36	66-360	66-3.9K	66-43K	66-470K	66-5.1M
66-3.6	66-39	66-390	66-4.3K	66-47K	66-510K	66-5.6M
66-3.9	66-43	66-430	66-4.7K	66-51K	66-560K	66-6.2M
66-4.3	66-47	66-470	66-5.1K	66-56K	66-620K	66-6.8M
66-4.7	66-51	66-510	66-5.6K	66-62K	66-680K	66-7.5M
66-5.1	66-56	66-560	66-6.2K	66-68K	66-750K	66-8.2M
66-5.6	66-62	66-620	66-6.8K	66-75K	66-820K	66-9.1M
66-6.2	66-68	66-680	66-7.5K	66-82K	66-910K	66-10M
66-6.8	66-75	66-750	66-8.2K	66-91K	66-1M	

\$2.00
(1-2 bags)

\$1.85
(3-5 bags)

\$1.65
(6 bags-up)

A. 1/2 Watt Flameproof Resistors

■ 5% tolerance ■ 20 per bag

37-.22	37-4.3	37-27	37-160	37-1K	37-6.8K	37-43K
37-.33	37-4.7	37-30	37-180	37-1.1K	37-7.5K	37-47K
37-.47	37-5.1	37-33	37-200	37-1.2K	37-8.2K	37-51K
37-.51	37-5.6	37-36	37-220	37-1.3K	37-9.1K	37-56K
37-.68	37-6.2	37-39	37-240	37-1.5K	37-10K	37-62K
37-.82	37-6.8	37-43	37-270	37-1.6K	37-11K	37-68K
37-.91	37-7.5	37-47	37-300	37-1.8K	37-12K	37-75K
37-1	37-8.2	37-51	37-330	37-2K	37-13K	37-82K
37-1.2	37-9.1	37-56	37-360	37-2.2K	37-15K	37-91K
37-1.5	37-10	37-62	37-390	37-2.4K	37-16K	37-100K
37-1.8	37-11	37-68	37-430	37-2.7K	37-18K	37-120K
37-2	37-12	37-75	37-470	37-3K	37-20K	37-150K
37-2.2	37-13	37-82	37-510	37-3.3K	37-22K	37-180K
37-2.4	37-15	37-91	37-560	37-3.6K	37-24K	37-200K
37-2.7	37-16	37-100	37-620	37-3.9K	37-27K	37-300K
37-3	37-18	37-110	37-680	37-4.3K	37-30K	37-320K
37-3.3	37-20	37-120	37-750	37-4.7K	37-33K	
37-3.6	37-22	37-130	37-820	37-5.1K	37-36K	
37-3.9	37-24	37-150	37-910	37-5.6K	37-39K	

\$2.15
(1-2 bags)

\$2.00
(3-5 bags)

\$1.85
(6 bags-up)

A. 1 Watt Resistors

■ 5% tolerance ■ 20 per bag

43-.47	43-4.7	43-51	43-560	43-5.6K	43-33K	43-330K
43-.51	43-5.1	43-56	43-620	43-6.2K	43-39K	43-390K
43-.56	43-5.6	43-68	43-680	43-6.8K	43-47K	43-470K
43-.68	43-6.8	43-82	43-750	43-7.5K	43-51K	43-510K
43-.82	43-8.2	43-91	43-820	43-8.2K	43-56K	43-560K
43-.91	43-9.1	43-100	43-910	43-9.1K	43-62K	43-620K
43-1	43-10	43-120	43-1K	43-10K	43-68K	43-680K
43-1.2	43-11	43-150	43-1.2K	43-12K	43-75K	43-750K
43-1.5	43-12	43-180	43-1.5K	43-13K	43-82K	43-820K
43-1.8	43-15	43-200	43-1.8K	43-14K	43-91K	43-910K
43-2	43-18	43-220	43-2.2K	43-15K	43-100K	43-1M
43-2.2	43-22	43-270	43-2.7K	43-18K	43-120K	43-1.5M
43-2.7	43-27	43-330	43-3.3K	43-22K	43-150K	43-2.2M
43-3.3	43-33	43-390	43-3.9K	43-27K	43-180K	
43-3.9	43-39	43-470	43-4.7K	43-30K	43-220K	
43-4.3	43-47	43-510	43-5.1K	43-32K	43-270K	

\$2.65
(1-2 bags)

\$2.50
(3-5 bags)

\$2.35
(6 bags-up)

B. 2 Watt

■ 10% tolerance ■ Five per bag

44-.10	44-1	44-8.2	44-82	44-1.5K	44-15K	44-120K
44-.15	44-1.2	44-10	44-100	44-1.8K	44-18K	44-150K
44-.18	44-1.5	44-12	44-120	44-2.2K	44-22K	44-180K
44-.22	44-1.8	44-15	44-150	44-2.7K	44-27K	44-220K
44-.27	44-2.2	44-22	44-180	44-3.3K	44-33K	44-330K
44-.33	44-2.7	44-27	44-470	44-3.9K	44-39K	44-390K
44-.39	44-3.3	44-33	44-560	44-4.7K	44-47K	44-470K
44-.47	44-3.9	44-39	44-680	44-5.6K	44-56K	44-560K
44-.56	44-4.7	44-47	44-820	44-6.8K	44-68K	44-680K
44-.68	44-5.6	44-56	44-1K	44-8.2K	44-82K	
44-.82	44-6.8	44-68	44-1.2K	44-10K	44-100K	

\$1.75
(1-3 bags)

\$1.50
(4-9 bags)

\$1.00
(10 bags-up)

B. 3 Watt

■ 10% tolerance ■ Five per bag

45-.10	45-.27	45-.47	45-.82	45-2	45-3	45-10
45-.22	45-.33	45-.56	45-1	45-2.5	45-5	

\$1.90
(1-3 bags)

\$1.60
(4-9 bags)

\$1.10
(10 bags-up)

C. 5 Watt

■ 10% tolerance ■ Five per bag

46-.10	46-.82	46-3.9	46-15	46-100	46-350	46-1K
46-.15	46-1	46-4	46-20	46-120	46-400	46-1.2K
46-.22	46-1.2	46-5	46-25	46-125	46-470	46-1.25K
46-.27	46-1.75	46-5.1	46-30	46-150	46-500	46-1.3K
46-.33	46-2	46-7.5	46-33	46-200	46-600	46-1.5K
46-.47	46-2.2	46-8	46-40	46-220	46-700	46-2K
46-.51	46-2.7	46-8.2	46-47	46-250	46-750	46-2.5K
46-.68	46-3	46-10	46-56	46-300	46-800	46-2.8K
46-.7	46-3.3	46-12	46-65	46-330	46-900	46-3K

\$2.00
(1-3 bags)

\$1.75
(4-9 bags)

\$1.25
(10 bags-up)

C. 7 Watt

■ 10% tolerance ■ Five per bag

62-.10	62-.68	62-2.7	62-5.6	62-12	62-27	62-56
62-.22	62-.82	62-3.3	62-6.8	62-15	62-33	62-68
62-.33	62-1	62-3.9	62-8.2	62-18	62-39	62-82
62-.47	62-2.2	62-4.7	62-10	62-22	62-47	62-100

\$2.25
(1-3 bags)

\$1.90
(4-9 bags)

\$1.50
(10 bags-up)

D. 10 Watt

■ 10% tolerance ■ Five per bag

47-.10	47-2.2	47-7.5	47-40	47-200	47-560	47-1.2K
47-.22	47-2.7	47-8.2	47-47	47-250	47-600	47-1.25K
47-.27	47-3	47-10	47-50	47-300	47-700	47-1.75K
47-.33	47-3.3	47-15	47-56	47-330	47-750	47-2K
47-.47	47-4	47-20	47-75	47-350	47-800	47-2.25K
47-1	47-4.7	47-22	47-100	47-400	47-820	47-2.5K
47-1.2	47-5	47-30	47-120	47-470	47-900	47-5K
47-2	47-6.8	47-33	47-125	47-500	47-1K	47-10K

\$2.30
(1-3 bags)

\$1.95
(4-9 bags)

\$1.55
(10 bags-up)

D. 15 Watt

■ 10% tolerance ■ Five per bag

63-.56	63-2.2	63-4.7	63-10	63-22	63-39	63-68
63-.68	63-2.7	63-5.6	63-12	63-27	63-47	63-82
63-.82	63-3.3	63-6.8	63-15	63-33	63-56	63-100
63-1	63-3.9	63-8.2	63-18			

\$2.25
(1-3 bags)

\$2.75
(4-9 bags)

\$2.50
(10 bags-up)

D. 25 Watt

■ 10% tolerance ■ Five per bag

48-1	48-2.7	48-5	48-20	48-120	48-675	48-1K
48-2	48-3	48-8.2	48-47	48-600	48-750	48-1.4K
48-2.2	48-3.9	48-10	48-100			

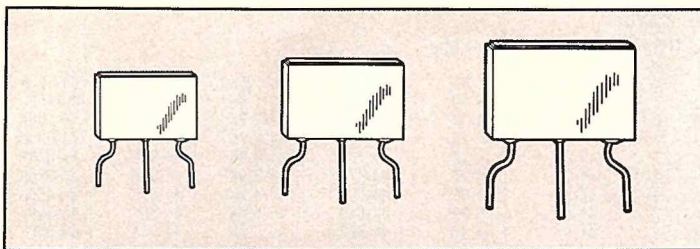
\$3.95
(1-3 bags)

\$3.45
(4-9 bags)

\$2.95
(10 bags-up)



RESISTORS



NOBLE Dual Emitter Resistors

■ Sorry—no mixing of values for quantity pricing

Order #	Value	Wattage	Price (1-49)	Price (50-up)
28-0500	.22ohm	2W	\$.89	\$.79
28-0505	.33ohm	2W	.89	.79
28-0510	.47ohm	2W	.89	.79
28-0515	.68ohm	2W	.89	.79
28-0520	.22ohm	3W	.99	.89
28-0525	.33ohm	3W	.99	.89
28-0530	.47ohm	3W	.99	.89
28-0535	.68ohm	3W	.99	.89
28-0540	.22ohm	5W	1.29	1.19
28-0545	.33ohm	5W	1.29	1.19
28-0550	.47ohm	5W	1.29	1.19
28-0555	.68ohm	5W	1.29	1.19

Potentiometers

■ Linear taper ■ 1/2W ■ Shaft dimensions: 1" (L) x 9/32" (Dia.) ■ Sorry—no mixing of values for quantity pricing

Order #	Ohm	Order #	Ohm
28-0675	1K	28-0688	100K
28-0678	5K	28-0690	250K
28-0680	10K	28-0693	500K
28-0683	25K	28-0695	1M
28-0685	50K		

\$1.09 (ea.)

Trim Pots

■ 1/2W ■ Sorry—no mixing of values for quantity pricing

Vertical

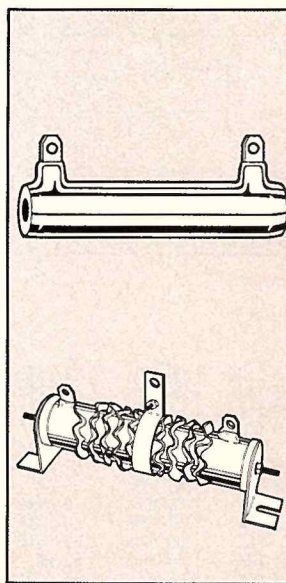
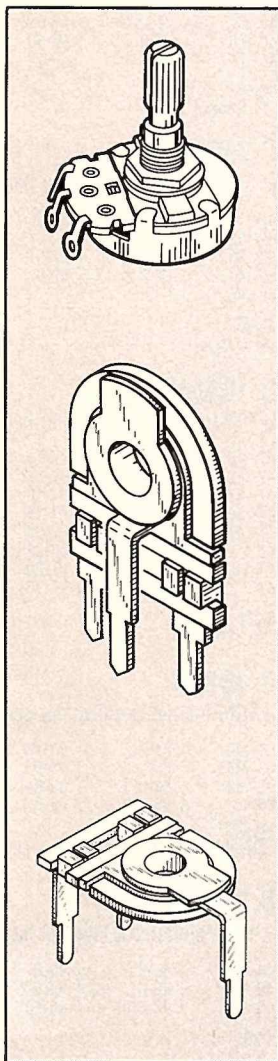
Order #	Ohm	Order #	Ohm
28-420	100	28-453	20K
28-425	200	28-455	25K
28-430	300	28-458	30K
28-435	500	28-460	50K
28-438	1K	28-463	100K
28-443	3K	28-465	250K
28-445	5K	28-468	500K
28-450	10K	28-470	1M

31¢ (1-9) 28¢ (10-99) 25¢ (100-up)

Horizontal

Order #	Ohm	Order #	Ohm
28-473	100	28-493	10K
28-475	200	28-495	25K
28-480	300	28-498	50K
28-483	500	28-500	100K
28-485	1K	28-503	250K
28-488	2.5K	28-505	500K
28-489	3K	28-508	1M
28-490	5K		

31¢ (1-9) 28¢ (10-99) 25¢ (100-up)



Audio Dummy Loads

■ Non-inductive load for bench testing amplifiers

Order #	Wattage	Ohms	Price (1-9)	Price (10-up)
28-0745	50	4	\$7.95	\$7.30
28-045	50	8	7.95	7.30
28-0750	100	4	10.40	9.65
28-048	100	8	10.40	9.65
28-0785	150	4	24.70	23.90
28-0790	150	8	24.70	23.90

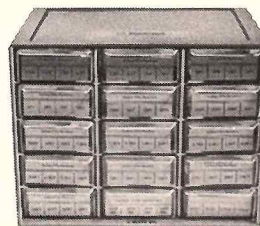
Variable Load Resistors

NEW

■ Designed for testing high current power supplies, amplifiers, etc. ■ Wiper ring is moved across resistor body to vary resistance ■ #28-1225 is variable from 0-8ohm, 90W maximum ■ #28-1230 is variable from 0-18ohm, 225W maximum

#28-1225 \$13.85 (ea.)
#28-1230 \$34.50 (ea.)

Resistor Kits



1500 Piece Cabinet Resistor Kit

■ A good assortment of commonly used resistors ■ 25 each of 60 different values of deposited carbon film resistors ■ Blue cabinet with 15 four-compartment see-thru drawers ■ 5% tolerance ■ Easily wall mounted or stacked ■ Dimensions: 10" (W) x 8" (H) x 6 1/2" (D)

1500 Piece Cabinet Resistor Assortment Resistance Values Included (in ohms)

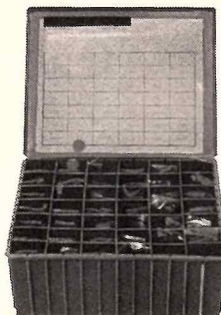
2.2	22	120	560	2.7K	10K	39K	220K
2.7	27	150	680	3.3K	12K	47K	270K
3.9	33	180	820	3.9K	15K	56K	390K
4.7	39	220	1.0K	4.7K	18K	82K	470K
6.8	47	270	1.2K	5.6K	22K	100K	560K
8.2	68	330	1.5K	6.8K	27K	120K	1.0M
10	75	390	1.8K	8.2K	33K	150K	2.2M
18	100	470	2.2K				

1/4 Watt

#28-630 \$99.95 (kit)

1/2 Watt

#28-635 \$109.95 (kit)



840 Piece 1/4 Watt Resistor Kit

■ Extremely small, metal film resistors (.25" body length, .095" body diameter) for today's miniaturized circuits that require greater stability and reliability than standard carbon composition types ■ Convenient case clearly indicates location of each resistor ■ 20 pieces of each value ■ 5% tolerance

Resistance Values Included (in ohms)

.68	6.8	68	470	3.3K	22K	150K	1M
1.0	10	100	680	4.7K	33K	220K	1.5M
1.5	15	150	1K	6.8K	47K	330K	2.2M
2.2	22	220	1.5K	10K	68K	470K	3.3M
3.3	33	330	2.2K	15K	100K	680K	4.7M
4.7	47						

#28-640 \$55.65 (kit)



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IN CANADA CALL TOLL FREE
1-800-824-9491



Technics™ Output ICs

MCM now stocks the very popular SVI series output ICs used in various Technics brand audio equipment

NEW

Order#	Price	Order #	Price
SVI1001A	\$18.50	SVI3102A	\$29.95
SVI2003	24.50	SVI3102B	35.00
SVI2003A	24.50	SVI3103	44.00
SVI2004A	67.00	SVI3104C	44.00
SVI2103A	39.95	SVI3105A	69.00
SVI2104	65.00	SVI3105B	65.00
SVI2105A	48.00	SVI3203	43.00
SVI3001	58.50	SVI3204	44.00
SVI3004	59.00	SVI3205	49.00
SVI3100	24.50	SVI3206	44.00
SVI3100A	24.30	SVI3206A	42.00
SVI3100B	22.80	SVI4003	41.00
		SVI4004	43.00

NEC

SHARP



signetics

SONY



SanKen



ROHM

SANYO



ORDER #	1-4	5-9	10-29	30-99
JAPANESE TRANSISTORS				
2SA49*	1.29	1.14	0.99	0.85
2SA60*	4.68	4.21	3.79	3.41
2SA239*	1.54	1.35	1.18	1.01
2SA240*	1.54	1.35	1.18	1.01
2SA321	1.76	1.55	1.35	1.16
2SA322	1.29	1.14	0.99	0.85
2SA324*	2.74	2.46	2.22	1.99
2SA329	1.44	1.27	1.10	0.95
2SA351	1.24	1.09	0.95	0.82
2SA354	1.26	1.11	0.96	0.83
2SA473	1.71	1.51	1.31	1.13
2SA484*	5.50	4.73	4.21	3.83
2SA485*	5.50	4.73	4.21	3.83
2SA489*	1.07	0.95	0.82	0.71
2SA490	2.06	1.81	1.58	1.36
2SA493	1.07	0.94	0.82	0.70
2SA495	0.97	0.85	0.74	0.64
2SA496	1.19	1.05	0.91	0.78
2SA497	4.20	3.66	3.14	2.80
2SA509	1.50	1.32	1.15	0.99
2SA510	5.50	4.73	4.21	3.83
2SA525	1.54	1.35	1.18	1.01
2SA537*	5.50	4.73	4.21	3.83
2SA539*	0.95	0.84	0.73	0.63
2SA561*	0.66	0.59	0.52	0.45
2SA562	0.47	0.42	0.37	0.32
2SA564	0.82	0.74	0.65	0.56
2SA566*	4.80	4.03	3.51	3.05
2SA606*	5.50	4.73	4.21	3.83
2SA608	0.30	0.27	0.24	0.21
2SA609*	0.32	0.29	0.26	0.22
2SA610*	0.32	0.29	0.26	0.22
2SA614	3.52	3.06	2.63	2.34
2SA616*	5.18	4.51	3.88	3.45
2SA627*	4.97	4.28	3.81	3.46
2SA628	0.55	0.50	0.44	0.38
2SA634	1.89	1.66	1.45	1.24
2SA636	2.44	2.15	1.87	1.61
2SA639	1.93	1.70	1.48	1.27
2SA640*	0.32	0.29	0.26	0.22
2SA641*	0.32	0.29	0.26	0.22
2SA642*	0.95	0.84	0.73	0.63
2SA649*	5.36	4.61	4.10	3.73
2SA659	1.21	1.06	0.92	0.79
2SA661	1.43	1.26	1.09	0.94
2SA663*	5.36	4.61	4.10	3.73
2SA666	0.81	0.73	0.64	0.56
2SA670*	1.07	0.95	0.82	0.71
2SA671*	1.07	0.95	0.82	0.71
2SA672*	0.95	0.84	0.73	0.63
2SA673	0.41	0.37	0.33	0.28
2SA677	1.83	1.61	1.40	1.20
2SA678*	0.95	0.84	0.73	0.63
2SA679*	6.15	5.29	4.71	4.28
2SA680	5.18	4.50	3.87	3.45
2SA682*	1.16	1.02	0.89	0.76

ORDER #	1-4	5-9	10-29	30-99
2SA683	1.09	0.98	0.86	0.75
2SA684	0.74	0.66	0.59	0.51
2SA695	0.95	0.84	0.73	0.63
2SA697	0.95	0.84	0.73	0.63
2SA699	2.07	1.82	1.58	1.36
2SA705	1.43	1.26	1.09	0.94
2SA706	7.16	6.16	5.48	4.98
2SA708	4.66	4.01	3.57	3.24
2SA715	1.04	0.91	0.80	0.68
2SA719	0.58	0.52	0.46	0.40
2SA720	0.41	0.36	0.32	0.28
2SA721*	0.32	0.29	0.26	0.22
2SA722	1.45	1.28	1.11	0.95
2SA725	1.13	1.00	0.87	0.75
2SA726*	0.95	0.84	0.73	0.63
2SA733	0.29	0.26	0.22	0.19
2SA738	1.50	1.32	1.15	0.99
2SA739	11.29	9.82	8.94	8.14
2SA740	1.99	1.75	1.52	1.31
2SA743	1.49	1.31	1.14	0.98
2SA744	3.30	2.87	2.47	2.20
2SA745	9.21	8.02	7.29	6.64
2SA746	4.84	4.17	3.71	3.37
2SA747	5.36	4.61	4.10	3.73
2SA750*	0.32	0.29	0.26	0.22
2SA753*	6.15	5.29	4.71	4.28
2SA755*	1.07	0.95	0.82	0.71
2SA757*	6.15	5.29	4.71	4.28
2SA758*	6.15	5.29	4.71	4.28
2SA762*	5.18	4.51	3.88	3.45
2SA763*	5.36	4.61	4.10	3.73
2SA764	4.61	4.01	3.45	3.07
2SA765	5.18	4.51	3.88	3.45
2SA768	1.07	0.95	0.82	0.71
2SA769	2.20	1.94	1.69	1.45
2SA770	3.29	2.86	2.46	2.19
2SA771	3.12	2.72	2.34	2.08
2SA772	2.58	2.27	1.98	1.70
2SA773*	0.75	0.66	0.59	0.52
2SA777	1.11	0.98	0.85	0.73
2SA778	1.59	1.40	1.22	1.05
2SA794	1.38	1.21	1.06	0.91
2SA798	1.19	1.05	0.91	0.78
2SA808	4.97	4.28	3.81	3.46
2SA809*	1.39	1.23	1.07	0.92
2SA810*	1.39	1.23	1.07	0.92
2SA812	0.53	0.48	0.42	0.37
2SA814	2.10	1.85	1.61	1.39
2SA815	2.07	1.82	1.59	1.36
2SA816	2.46	2.16	1.88	1.62
2SA817	0.83	0.75	0.66	0.57
2SA818*	1.55	1.37	1.19	1.02
2SA826	0.57	0.51	0.45	0.39
2SA836	0.70	0.63	0.55	0.48

ORDER #	1-4	5-9	10-29	30-99
2SA837*	6.15	5.29	4.71	4.28
2SA838	0.57	0.51	0.45	0.39
2SA839	3.08	2.68	2.30	2.05
2SA840*	2.64	2.32	2.02	1.74
2SA841	0.65	0.58	0.51	0.45
2SA842*	0.32	0.29	0.26	0.22
2SA844	0.32	0.29	0.26	0.22
2SA845	4.82	4.19	3.60	3.21
2SA847	1.20	1.08	0.95	0.83
2SA850	0.75	0.66	0.59	0.52
2SA854	0.66	0.59	0.52	0.45
2SA857*	1.39	1.23	1.07	0.92
2SA858*	1.39	1.23	1.07	0.92
2SA872	0.63	0.56	0.50	0.43
2SA874	0.74	0.66	0.58	0.51
2SA879	2.55	2.25	1.95	1.68
2SA881	0.92	0.82	0.72	0.63
2SA884	8.05	6.92	6.16	5.60
2SA885	1.37	1.20	1.05	0.90
2SA886	1.59	1.40	1.22	1.05
2SA893	0.72	0.65	0.57	0.50
2SA898	1.06	0.95	0.84	0.73
2SA899	1.79	1.58	1.37	1.18
2SA900	2.01	1.77	1.54	1.32
2SA904	1.09	0.98	0.86	0.75
2SA905	0.98	0.89	0.78	0.68
2SA906	0.73	0.66	0.58	0.50
2SA908	8.25	7.18	6.53	5.94
2SA913	3.09	2.72	2.36	2.03
2SA914	3.47	3.01	2.59	2.31
2SA915	1.07	0.96	0.85	0.74
2SA916	1.08	0.95	0.83	0.71
2SA917*	0.98	0.89	0.78	0.68
2SA918	3.09	2.72	2.36	2.03
2SA921	0.89	0.80	0.71	0.61
2SA929*	0.95	0.84	0.73	0.63
2SA933	0.39	0.35	0.31	0.27
2SA934	0.53	0.47	0.42	0.36
2SA935	0.97	0.87	0.77	0.67
2SA936	0.86	0.77	0.68	0.59
2SA937	0.45	0.40	0.35	0.31
2SA939	2.26	1.99	1.73	1.49
2SA940	1.95	1.72	1.50	1.29
2SA941*	0.98	0.89	0.78	0.68
2SA942*	0.98	0.89	0.78	0.68
2SA949	1.00	0.90	0.79	0.69
2SA950	0.59	0.53	0.47	0.41
2SA951	2.64	2.32	2.02	1.74
2SA952	0.45	0.41	0.36	0.31
2SA953	1.18	1.06	0.94	0.81
2SA954	1.17	1.05	0.92	0.80
2SA957	3.76	3.27	2.81	2.50
2SA958	2.46	2.16	1.88	1.62
2SA963	1.86	1.64	1.43	1.23
2SA965	1.05	0.94	0.83	0.72
2SA966	0.94	0.85	0.74	0.65
2SA968	2.64	2.32	2.02	1.74

*MCM is not able to supply this number.
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SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
2SA970	0.49	0.44	0.38	0.33
2SA978	2.81	2.47	2.15	1.85
2SA979	1.22	1.07	0.94	0.80
2SA980	10.63	9.25	8.42	7.66
2SA981	9.49	8.26	7.51	6.84
2SA982	6.76	5.81	5.17	4.71
2SA984	0.68	0.61	0.54	0.47
2SA985	2.28	2.01	1.75	1.50
2SA986	1.50	1.32	1.15	0.99
2SA988	0.83	0.74	0.65	0.57
2SA990	1.00	0.90	0.79	0.69
2SA991	1.04	0.93	0.82	0.71
2SA992	0.71	0.64	0.56	0.49
2SA993	0.55	0.50	0.44	0.38
2SA995	1.35	1.19	1.04	0.89
2SA999	0.42	0.38	0.33	0.29
2SA1006	2.63	2.32	2.02	1.73
2SA1009	2.47	2.17	1.89	1.63
2SA1010	4.28	3.73	3.20	2.85
2SA1011	1.55	1.37	1.19	1.02
2SA1012	2.08	1.83	1.59	1.37
2SA1013	1.00	0.88	0.76	0.66
2SA1015	0.39	0.35	0.31	0.27
2SA1016	2.58	2.27	1.98	1.70
2SA1017*	1.39	1.23	1.07	0.92
2SA1019	1.64	1.44	1.25	1.08
2SA1020	1.08	0.97	0.85	0.74
2SA1021	1.85	1.63	1.42	1.22
2SA1026	1.70	1.50	1.30	1.12
2SA1027*	0.68	0.61	0.54	0.47
2SA1029	1.08	0.95	0.83	0.71
2SA1037	0.73	0.66	0.58	0.50
2SA1038	0.88	0.79	0.70	0.61
2SA1045	14.12	12.29	11.18	10.18
2SA1047*	1.26	1.11	0.96	0.83
2SA1048	0.31	0.28	0.24	0.21
2SA1049	0.62	0.56	0.49	0.43
2SA1051*	6.15	5.27	4.71	4.28
2SA1061	4.75	4.13	3.56	3.16
2SA1062	6.89	5.92	5.27	4.80
2SA1065*	14.08	12.25	11.15	10.14
2SA1075*	4.27	3.67	3.27	2.97
2SA1076*	7.30	6.28	5.59	5.09
2SA1077	6.22	5.35	4.76	4.33
2SA1083	0.96	0.86	0.76	0.66
2SA1084	0.97	0.87	0.77	0.67
2SA1085	1.17	1.06	0.93	0.81
2SA1091	1.13	1.02	0.90	0.78
2SA1093	4.32	3.76	3.23	2.88
2SA1094	5.14	4.42	3.93	3.58
2SA1095	7.30	6.28	5.59	5.09
2SA1100	0.97	0.87	0.77	0.67
2SA1102	4.69	4.08	3.51	3.13
2SA1103*	5.49	4.78	4.11	3.66
2SA1104	5.49	4.78	4.11	3.66
2SA1105	5.16	4.44	3.95	3.59
2SA1106	5.16	4.44	3.95	3.59
2SA1107*	4.87	4.19	3.73	3.39
2SA1108*	5.14	4.42	3.93	3.58
2SA1110	1.35	1.19	1.04	0.89
2SA1111	2.25	1.98	1.72	1.48
2SA1112	3.06	2.69	2.34	2.01
2SA1115	0.42	0.38	0.33	0.29
2SA1116	6.15	5.29	4.71	4.28
2SA1120	1.44	1.27	1.10	0.95
2SA1122	0.40	0.36	0.31	0.27
2SA1123	0.98	0.89	0.78	0.68
2SA1124	1.17	1.06	0.93	0.81
2SA1125	3.02	2.66	2.32	1.99
2SA1127	0.67	0.61	0.53	0.46
2SA1129	4.85	4.22	3.63	3.23
2SA1135	4.63	4.03	3.46	3.08
2SA1141	4.65	4.00	3.56	3.24
2SA1142	1.62	1.42	1.24	1.07
2SA1145	0.93	0.84	0.74	0.64
2SA1146	4.55	3.96	3.41	3.03
2SA1150	0.56	0.50	0.44	0.39
2SA1152	0.95	0.84	0.73	0.63
2SA1160	1.19	1.05	0.91	0.78
2SA1162	0.44	0.39	0.35	0.30

ORDER #	1-4	5-9	10-29	30-99
2SA1169	9.03	7.86	7.15	6.51
2SA1170	9.47	8.24	7.50	6.83
2SA1173	1.29	1.14	0.99	0.85
2SA1175	0.61	0.55	0.49	0.42
2SA1184	1.78	1.57	1.36	1.17
2SA1185	8.13	7.00	6.23	5.67
2SA1186	7.38	6.35	5.65	5.14
2SA1187	8.34	7.17	6.38	5.81
2SA1188	0.41	0.36	0.32	0.28
2SA1195	2.28	2.00	1.74	1.50
2SA1201	1.17	1.03	0.90	0.77
2SA1202	1.05	0.94	0.83	0.72
2SA1204	2.07	1.82	1.58	1.36
2SA1205	5.65	4.86	4.33	3.94
2SA1207	0.76	0.69	0.60	0.53
2SA1208	0.98	0.89	0.78	0.68
2SA1209	1.95	1.72	1.49	1.28
2SA1210	1.47	1.29	1.12	0.97
2SA1211*	0.68	0.61	0.54	0.47
2SA1213	1.42	1.25	1.09	0.93
2SA1215	9.17	7.98	7.26	6.61
2SA1216	8.68	7.55	6.87	6.25
2SA1220	1.86	1.64	1.42	1.22
2SA1221	1.37	1.20	1.05	0.90
2SA1227*	5.64	4.85	4.31	3.93
2SA1232	6.80	5.85	5.21	4.74
2SA1240	1.31	1.15	1.00	0.86
2SA1243	2.39	2.11	1.83	1.58
2SA1244	2.52	2.22	1.93	1.66
2SA1246*	0.68	0.61	0.54	0.47
2SA1248	1.10	0.96	0.84	0.72
2SA1249	1.07	0.96	0.85	0.74
2SA1256	0.68	0.61	0.54	0.47
2SA1261	3.47	3.01	2.59	2.31
2SA1262	4.13	3.59	3.09	2.75
2SA1263	4.04	3.51	3.02	2.69
2SA1264	3.95	3.44	2.96	2.63
2SA1265	4.57	3.98	3.42	3.05
2SA1276	1.78	1.56	1.36	1.17
2SA1282	1.08	0.97	0.85	0.74
2SA1283	1.21	1.09	0.96	0.83
2SA1284	1.00	0.90	0.79	0.69
2SA1285	0.93	0.83	0.73	0.64
2SA1286	1.14	1.03	0.90	0.79
2SA1294	8.10	6.96	6.20	5.64
2SA1295	14.19	12.35	11.24	10.23
2SA1300	0.92	0.82	0.72	0.63
2SA1301	5.45	4.74	4.08	3.63
2SA1302	5.79	4.98	4.43	4.03
2SA1303	5.39	4.64	4.13	3.76
2SA1304	2.00	1.76	1.53	1.32
2SA1306	1.88	1.66	1.44	1.24
2SA1307	2.77	2.44	2.12	1.83
2SA1309	0.61	0.55	0.48	0.42
2SA1310	1.05	0.92	0.80	0.69
2SA1316	0.97	0.87	0.77	0.67
2SA1317	0.32	0.29	0.26	0.22
2SA1318	0.36	0.32	0.28	0.25
2SA1328	3.01	2.65	2.30	1.98
2SA1330	1.03	0.93	0.81	0.71
2SA1333	7.30	6.28	5.59	5.09
2SA1341	0.41	0.36	0.32	0.28
2SA1345	0.50	0.45	0.40	0.35
2SA1346	0.39	0.35	0.31	0.27
2SA1348	0.32	0.29	0.26	0.22
2SA1349	2.09	1.84	1.60	1.38
2SA1352	1.12	0.98	0.86	0.74
2SA1353	1.00	0.88	0.77	0.66
2SA1356	1.47	1.29	1.12	0.97
2SA1357	1.57	1.38	1.20	1.03
2SA1358	1.78	1.57	1.36	1.17
2SA1360	1.95	1.72	1.49	1.28
2SA1364	0.99	0.87	0.76	0.65
2SA1365	0.78	0.70	0.62	0.54
2SA1369	1.01	0.89	0.78	0.67
2SA1370	1.10	0.99	0.87	0.76
2SA1380	1.39	1.22	1.06	0.91
2SA1381	1.14	1.00	0.87	0.75

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ORDER #	1-4	5-9	10-29	30-99
2SA1383	2.52	2.22	1.93	1.66
2SA1384	1.01	0.89	0.77	0.66
2SA1385	1.74	1.53	1.33	1.14
2SA1386	7.72	6.64	5.91	5.38
2SA1389	7.30	6.28	5.59	5.09
2SA1390	0.49	0.44	0.38	0.33
2SA1399	0.89	0.80	0.71	0.61
2SA1400	2.53	2.22	1.93	1.66
2SA1403	4.98	4.28	3.81	3.47
2SA1406	4.78	4.16	3.58	3.18
2SA1408	1.93	1.70	1.48	1.27
2SA1412	2.80	2.47	2.15	1.85
2SA1426	1.09	0.98	0.86	0.75
2SA1428	1.55	1.37	1.19	1.02
2SA1431	1.06	0.94	0.81	0.70
2SA1462	1.19	1.04	0.91	0.78
2SA1489	4.87	4.18	3.72	3.39
2SA1490	6.93	5.96	5.31	4.83
2SA1491	5.00	4.35	3.74	3.33
2SA1492	7.70	6.63	5.90	5.37
2SA1493	12.68	11.03	10.04	9.14
2SA1494	9.95	8.66	7.88	7.17
2SA1496	0.59	0.53	0.47	0.41
2SA1502	0.40	0.36	0.31	0.27
2SA1507	2.71	2.38	2.07	1.78
2SA1515	0.61	0.55	0.49	0.42
2SA1516	5.50	4.73	4.21	3.83
2SA1535	2.46	2.16	1.88	1.62
2SA1538	1.46	1.28	1.12	0.96
2SA1552	1.95	1.72	1.50	1.29
2SA1582	0.38	0.34	0.30	0.26
2SA1606	1.57	1.38	1.20	1.03
2SA1624	0.81	0.73	0.64	0.56
2SA1625	1.29	1.14	0.99	0.85
2SA1640	2.97	2.58	2.22	1.98
2SA1673	7.33	6.37	5.80	5.28
2SB33	0.97	0.87	0.77	0.67
2SB43*	1.22	1.09	0.96	0.84
2SB53*	0.66	0.59	0.53	0.48
2SB54*	1.26	1.11	0.96	0.83
2SB75	1.05	0.95	0.83	0.73
2SB77*	1.05	0.95	0.83	0.73
2SB135*	1.22	1.09	0.96	0.84
2SB178*	0.66	0.59	0.53	0.48
2SB185*	1.22	1.09	0.96	0.84
2SB186*	1.26	1.11	0.96	0.83
2SB187*	1.22	1.09	0.96	0.84
2SB263	1.22	1.09	0.96	0.84
2SB317*	1.22	1.09	0.96	0.84
2SB324	1.33	1.17	1.02	0.88
2SB337*	6.48	5.44	4.74	4.12
2SB407*	10.45	9.40	8.46	7.62
2SB435	3.94	3.43	2.95	2.63
2SB440	1.26	1.11	0.96	0.83
2SB471*	10.45	9.40	8.46	7.62
2SB472*	10.45	9.40	8.46	7.62
2SB507	1.65	1.45	1.27	1.09
2SB509	6.40	5.51	4.90	4.46
2SB511*	1.07	0.95	0.82	0.71
2SB512*	2.06	1.81	1.58	1.36
2SB514*	2.06	1.81	1.58	1.36
2SB521	5.36	4.61	4.10	3.73
2SB524	2.36	2.07	1.80	1.55
2SB525*	0.75	0.66	0.59	0.52
2SB526*	1.57	1.38	1.20	1.03
2SB527	1.57	1.38	1.20	1.03
2SB528	2.21	1.94	1.69	1.45
2SB529	2.14	1.88	1.64	1.41
2SB530*	6.76	5.81	5.17	4.71
2SB531	6.76	5.81	5.17	4.71
2SB536	2.08	1.83	1.59	1.37
2SB537	2.57	2.26	1.97	1.69
2SB539*	6.76	5.81	5.17	4.71
2SB541*	6.76	5.81	5.17	4.71
2SB544*	0.76	0.69	0.60	0.52
2SB546	1.88	1.66	1.44	1.24
2SB548	1.29	1.14	0.99	0.85
2SB549	1.47	1.29	1.12	0.97
2SB554	6.15	5.29	4.71	4.28
2SB555*	5.36	4.61	4.10	3.73



ORDER #	1-4	5-9	10-29	30-99
2SB556*	6.33	5.45	4.85	4.41
2SB557	4.80	4.13	3.67	3.34
2SB558	7.23	6.21	5.53	5.03
2SB559	1.03	0.90	0.79	0.68
2SB560	0.75	0.66	0.59	0.52
2SB561	0.56	0.51	0.44	0.39
2SB562	0.84	0.76	0.67	0.58
2SB564	1.17	1.05	0.92	0.80
2SB566	2.71	2.38	2.07	1.78
2SB568	3.37	2.93	2.52	2.24
2SB595	1.95	1.72	1.49	1.28
2SB596	2.01	1.77	1.54	1.32
2SB598	0.24	0.22	0.19	0.17
2SB600	9.16	7.97	7.25	6.60
2SB601	2.00	1.76	1.53	1.32
2SB605	1.22	1.09	0.96	0.84
2SB620*	0.32	0.29	0.26	0.22
2SB621	1.02	0.92	0.81	0.70
2SB624	1.76	1.55	1.35	1.16
2SB628*	1.55	1.37	1.19	1.02
2SB630*	3.37	2.93	2.52	2.24
2SB631	1.16	1.02	0.89	0.76
2SB632	1.05	0.92	0.80	0.69
2SB633	2.15	1.89	1.64	1.41
2SB641	0.53	0.47	0.42	0.36
2SB642	0.46	0.41	0.36	0.31
2SB643	0.59	0.53	0.47	0.41
2SB644	0.71	0.63	0.56	0.49
2SB646	1.03	0.93	0.81	0.71
2SB647	0.95	0.84	0.73	0.63
2SB648	1.58	1.39	1.21	1.04
2SB649	1.26	1.11	0.96	0.83
2SB653	5.56	4.78	4.29	3.87
2SB655*	6.15	5.29	4.71	4.28
2SB656*	6.15	5.29	4.71	4.28
2SB668*	2.34	2.11	1.90	1.71
2SB675	3.52	3.06	2.63	2.34
2SB681	7.08	6.09	5.42	4.93
2SB682*	2.15	1.89	1.64	1.41
2SB686	3.09	2.69	2.31	2.06
2SB688	2.87	2.50	2.15	1.91
2SB690*	2.15	1.89	1.64	1.41
2SB691*	2.87	2.50	2.15	1.91
2SB692*	2.87	2.50	2.15	1.91
2SB696	4.57	3.93	3.50	3.18
2SB697	5.36	4.61	4.10	3.73
2SB698	0.64	0.58	0.51	0.44
2SB699*	5.24	4.50	4.01	3.65
2SB700	5.24	4.50	4.01	3.65
2SB701*	5.24	4.50	4.01	3.65
2SB702*	5.24	4.50	4.01	3.65
2SB703	2.07	1.82	1.59	1.36
2SB705	6.74	5.79	5.16	4.69
2SB707	2.81	2.44	2.10	1.87
2SB709	0.63	0.57	0.50	0.44
2SB710	0.94	0.85	0.74	0.65
2SB716	1.10	0.99	0.87	0.76
2SB717	2.49	2.19	1.91	1.64
2SB718	2.07	1.82	1.58	1.36
2SB719	3.02	2.66	2.31	1.99
2SB720*	3.37	2.93	2.52	2.24
2SB722*	6.15	5.29	4.71	4.28
2SB727	1.83	1.61	1.40	1.20
2SB731	1.51	1.33	1.15	0.99
2SB733	1.12	0.98	0.85	0.73
2SB734	1.20	1.08	0.95	0.83
2SB737	1.05	0.95	0.83	0.73
2SB739	1.13	1.00	0.87	0.75
2SB740	1.03	0.92	0.81	0.71
2SB743	2.25	1.98	1.72	1.48
2SB744	1.17	1.03	0.89	0.77
2SB745	0.80	0.72	0.64	0.55
2SB748*	5.24	4.50	4.01	3.65
2SB749*	5.24	4.50	4.01	3.65
2SB750	2.61	2.30	2.00	1.72
2SB751	2.80	2.46	2.14	1.84
2SB753*	2.15	1.89	1.64	1.41
2SB754	3.74	3.25	2.80	2.49
2SB755	4.27	3.67	3.27	2.97
2SB757	5.58	4.80	4.27	3.89

ORDER #	1-4	5-9	10-29	30-99
2SB761	2.20	1.94	1.69	1.45
2SB764	1.00	0.90	0.80	0.69
2SB765	2.25	1.98	1.72	1.48
2SB766	1.11	1.00	0.88	0.76
2SB772	1.19	1.07	0.94	0.82
2SB775	3.05	2.66	2.28	2.03
2SB776	3.54	3.08	2.65	2.35
2SB779	1.01	0.89	0.78	0.67
2SB786	0.68	0.61	0.54	0.47
2SB788	0.99	0.89	0.78	0.68
2SB793*	1.18	1.06	0.94	0.81
2SB794	1.42	1.25	1.08	0.93
2SB798	1.58	1.39	1.21	1.04
2SB808	0.59	0.53	0.47	0.41
2SB810	0.75	0.68	0.60	0.52
2SB813*	1.07	0.95	0.82	0.71
2SB816	4.23	3.68	3.17	2.82
2SB817	4.71	4.05	3.60	3.28
2SB819	1.41	1.24	1.08	0.93
2SB822	1.44	1.26	1.10	0.95
2SB824	1.54	1.36	1.18	1.02
2SB825	2.14	1.88	1.64	1.41
2SB826	3.04	2.68	2.33	2.00
2SB827	3.60	3.13	2.69	2.40
2SB828	4.24	3.69	3.17	2.82
2SB829	4.45	3.87	3.33	2.96
2SB834	1.71	1.51	1.31	1.13
2SB835	1.45	1.28	1.11	0.95
2SB849*	4.65	4.00	3.56	3.24
2SB850	4.28	3.68	3.28	2.98
2SB851	0.97	0.87	0.77	0.67
2SB855	0.80	0.72	0.64	0.55
2SB856	2.08	1.83	1.59	1.37
2SB857	2.36	2.08	1.81	1.56
2SB860	3.01	2.62	2.25	2.00
2SB861*	3.37	2.93	2.52	2.24
2SB862	2.56	2.25	1.96	1.68
2SB863	4.83	4.20	3.61	3.22
2SB869	4.14	3.60	3.10	2.76
2SB870	3.12	2.74	2.39	2.05
2SB873	1.83	1.61	1.40	1.21
2SB882	2.80	2.44	2.09	1.86
2SB883	4.74	4.12	3.55	3.16
2SB885	2.60	2.29	1.99	1.71
2SB886	3.16	2.75	2.36	2.10
2SB889	1.08	0.97	0.85	0.74
2SB891	1.37	1.21	1.05	0.90
2SB892	0.98	0.86	0.75	0.65
2SB894	0.90	0.81	0.72	0.62
2SB905	1.75	1.54	1.34	1.15
2SB909	0.60	0.54	0.47	0.41
2SB910	1.02	0.92	0.81	0.70
2SB911	0.59	0.53	0.47	0.41
2SB919	2.17	1.91	1.66	1.43
2SB921	3.58	3.11	2.67	2.38
2SB926	1.14	1.03	0.90	0.79
2SB930	3.03	2.67	2.32	2.00
2SB941	2.62	2.31	2.01	1.73
2SB947	4.00	3.48	2.99	2.66
2SB949	2.83	2.46	2.12	1.88
2SB953	2.21	1.94	1.69	1.45
2SB956	0.57	0.51	0.45	0.39
2SB962	1.54	1.36	1.18	1.02
2SB965	5.02	4.37	3.76	3.34
2SB966	4.45	3.82	3.40	3.10
2SB970	0.96	0.87	0.76	0.66
2SB974	2.43	2.14	1.86	1.60
2SB975	2.25	1.98	1.72	1.48
2SB976	1.64	1.44	1.25	1.08
2SB985	1.17	1.05	0.93	0.81
2SB986	1.27	1.12	0.97	0.84
2SB1009	1.05	0.93	0.81	0.69
2SB1012	2.01	1.77	1.54	1.32
2SB1013	1.13	1.00	0.88	0.77
2SB1014	1.11	1.00	0.88	0.77
2SB1015	2.11	1.86	1.62	1.39
2SB1016	2.63	2.32	2.02	1.73
2SB1017	3.36	2.92	2.51	2.23

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
2SB1018	3.60	3.13	2.69	2.40
2SB1020	3.14	2.73	2.35	2.09
2SB1030	0.90	0.81	0.71	0.62
2SB1038	1.97	1.74	1.51	1.30
2SB1039	2.16	1.90	1.65	1.42
2SB1054	4.29	3.73	3.21	2.86
2SB1055	4.86	4.23	3.64	3.24
2SB1056	4.55	3.91	3.48	3.17
2SB1061	5.11	4.40	3.91	3.56
2SB1062	1.22	1.09	0.96	0.84
2SB1076	1.17	1.03	0.89	0.77
2SB1077	3.21	2.79	2.40	2.14
2SB1094	3.67	3.19	2.74	2.44
2SB1098	2.95	2.60	2.26	1.94
2SB1109	1.23	1.08	0.94	0.81
2SB1120	0.92	0.83	0.73	0.64
2SB1123	0.86	0.77	0.68	0.59
2SB1133	1.27	1.12	0.97	0.84
2SB1134	1.61	1.42	1.23	1.06
2SB1135	1.42	1.25	1.08	0.93
2SB1148	4.32	3.76	3.23	2.88
2SB1155	6.43	5.53	4.92	4.48
2SB1156	6.55	5.63	5.01	4.56
2SB1162	6.84	5.88	5.24	4.77
2SB1163	7.65	6.58	5.86	5.33
2SB1165	1.17	1.03	0.89	0.77
2SB1173	2.76	2.43	2.11	1.82
2SB1186A	1.01	0.89	0.77	0.66
2SB1201	1.05	0.94	0.83	0.72
2SB1202	1.11	1.00	0.88	0.76
2SB1203	1.29	1.13	0.99	0.85
2SB1204	1.40	1.23	1.07	0.92
2SB1205	1.32	1.16	1.01	0.87
2SB1218	0.62	0.56	0.49	0.43
2SB1223	1.58	1.39	1.21	1.04
2SB1243	0.96	0.84	0.73	0.63
2SB1274	1.13	0.99	0.86	0.74
2SB1317	7.59	6.52	5.81	5.28
2SB1363	1.42	1.25	1.08	0.93
2SB1428	1.26	1.11	0.96	0.83
2SC32*	5.50	4.73	4.21	3.83
2SC281*	0.56	0.51	0.44	0.39
2SC292*	5.50	4.73	4.21	3.83
2SC317*	0.75	0.68	0.59	0.52
2SC350*	0.41	0.36	0.32	0.28
2SC367*	0.75	0.68	0.59	0.52
2SC369*	0.56	0.51	0.44	0.39
2SC371*	0.56	0.51	0.44	0.39
2SC372*	0.49	0.44	0.38	0.33
2SC373*	0.56	0.51	0.44	0.39
2SC374	0.65	0.58	0.51	0.45
2SC377*	0.49	0.44	0.38	0.33
2SC378*	0.81	0.73	0.64	0.56
2SC380	0.41	0.37	0.33	0.28
2SC381*	0.49	0.44	0.38	0.33
2SC383	1.39	1.22	1.06	0.91
2SC387	1.66	1.46	1.27	1.09
2SC388*	0.66	0.59	0.52	0.45
2SC394*	0.49	0.44	0.38	0.33
2SC403	0.96	0.86	0.76	0.66
2SC454*	0.27	0.24	0.21	0.18
2SC458	0.27	0.24	0.21	0.18
2SC460	0.38	0.34	0.30	0.26
2SC461	0.34	0.31	0.27	0.23
2SC478*	0.63	0.57	0.50	0.43
2SC482	2.92	2.54	2.18	1.94
2SC484*	5.50	4.73	4.21	3.83
2SC485*	5.50	4.73	4.21	3.83
2SC493*	7.23	6.21	5.53	5.03
2SC494*	7.23	6.21	5.53	5.03
2SC495	1.46	1.28	1.11	0.96
2SC496	1.22	1.09	0.96	0.84
2SC497	3.85	3.35	2.88	2.56
2SC509	1.08	0.95	0.82	0.71
2SC510	5.50	4.73	4.21	3.83
2SC515*	2.97	2.61	2.27	1.96
2SC535	0.46	0.42	0.37	0.32
2SC536	0.32	0.29	0.25	0.22
2SC537	0.57	0.51	0.45	0.39
2SC538	1.83	1.61	1.40	1.21



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
2SC620*	0.49	0.44	0.38	0.33
2SC627	5.36	4.67	4.01	3.57
2SC632*	0.57	0.51	0.45	0.39
2SC633*	0.57	0.51	0.45	0.39
2SC634*	0.49	0.44	0.38	0.33
2SC644*	0.49	0.44	0.38	0.33
2SC645*	0.41	0.37	0.33	0.28
2SC647	4.64	3.99	3.55	3.23
2SC650*	0.41	0.37	0.33	0.28
2SC664*	6.11	5.26	4.68	4.26
2SC665*	6.11	5.26	4.68	4.26
2SC668*	0.62	0.56	0.49	0.43
2SC674*	0.62	0.56	0.49	0.43
2SC680*	5.08	4.37	3.89	3.54
2SC684*	0.56	0.50	0.44	0.39
2SC685*	5.24	4.56	3.92	3.49
2SC693*	0.84	0.76	0.67	0.58
2SC710	0.40	0.36	0.32	0.28
2SC711	0.67	0.61	0.53	0.46
2SC712	1.10	0.99	0.87	0.76
2SC715*	0.49	0.44	0.38	0.33
2SC716	0.81	0.73	0.64	0.56
2SC717	1.76	1.55	1.35	1.16
2SC727*	0.75	0.68	0.59	0.52
2SC732	0.66	0.59	0.52	0.45
2SC733	1.07	0.96	0.84	0.74
2SC734*	0.29	0.26	0.23	0.20
2SC735	0.56	0.51	0.44	0.39
2SC738*	0.49	0.44	0.38	0.33
2SC763	1.14	1.03	0.90	0.79
2SC772	0.95	0.85	0.75	0.65
2SC774*	0.56	0.51	0.44	0.39
2SC776	1.05	0.95	0.83	0.73
2SC778	1.05	0.95	0.83	0.73
2SC780	1.39	1.22	1.06	0.91
2SC783	4.14	3.60	3.09	2.75
2SC784*	1.52	1.34	1.16	1.00
2SC785	1.52	1.34	1.16	1.00
2SC789*	2.13	1.87	1.63	1.40
2SC790*	2.13	1.87	1.63	1.40
2SC792	6.95	5.97	5.32	4.84
2SC793*	4.49	3.86	3.43	3.13
2SC805	6.73	5.86	5.33	4.85
2SC806*	6.74	5.80	5.16	4.69
2SC807*	6.74	5.80	5.16	4.69
2SC814*	0.56	0.51	0.44	0.39
2SC827	5.57	4.79	4.26	3.88
2SC828	0.25	0.23	0.20	0.17
2SC829	0.95	0.85	0.75	0.65
2SC830*	5.08	4.37	3.89	3.54
2SC838	0.81	0.73	0.64	0.56
2SC853*	2.81	2.41	2.03	1.76
2SC858	0.81	0.73	0.64	0.56
2SC859	0.95	0.85	0.75	0.65
2SC867	8.58	7.46	6.79	6.18
2SC869*	1.59	1.40	1.22	1.05
2SC870*	0.49	0.44	0.38	0.33
2SC871*	0.49	0.44	0.38	0.33
2SC895*	5.47	4.70	4.18	3.81
2SC900	0.97	0.87	0.77	0.67
2SC901*	7.35	6.32	5.63	5.12
2SC904*	0.56	0.51	0.44	0.39
2SC923	0.76	0.69	0.60	0.52
2SC926*	1.59	1.40	1.22	1.05
2SC929*	0.31	0.28	0.25	0.21
2SC930	0.31	0.28	0.25	0.21
2SC939*	7.23	6.21	5.53	5.03
2SC940	6.72	5.77	5.14	4.68
2SC941	0.56	0.51	0.44	0.39
2SC945	0.29	0.26	0.23	0.20
2SC959*	1.56	1.40	1.26	1.14
2SC960	4.41	3.79	3.38	3.07
2SC966*	0.56	0.51	0.44	0.39
2SC967*	0.56	0.51	0.44	0.39
2SC968*	0.56	0.51	0.44	0.39
2SC971	0.56	0.51	0.44	0.39
2SC980*	0.56	0.51	0.44	0.39
2SC982	0.67	0.61	0.53	0.46
2SC983*	0.92	0.82	0.73	0.63
2SC984	1.90	1.67	1.45	1.25

ORDER #	1-4	5-9	10-29	30-99
2SC1000	1.09	0.96	0.83	0.72
2SC1008	1.59	1.40	1.21	1.02
2SC1013	2.90	2.55	2.22	1.91
2SC1014	2.90	2.55	2.22	1.91
2SC1030	4.69	4.03	3.59	3.27
2SC1047	0.66	0.59	0.52	0.45
2SC1051	4.60	4.00	3.44	3.06
2SC1060*	2.13	1.87	1.63	1.40
2SC1061*	2.13	1.87	1.63	1.40
2SC1079*	5.50	4.73	4.21	3.83
2SC1080*	4.49	3.86	3.43	3.13
2SC1096	0.95	0.84	0.73	0.63
2SC1098	2.02	1.77	1.54	1.33
2SC1106	7.86	6.76	6.02	5.48
2SC1107*	1.50	1.32	1.15	0.99
2SC1111*	7.23	6.21	5.53	5.03
2SC1114	7.44	6.40	5.69	5.18
2SC1115	8.50	7.31	6.51	5.92
2SC1116	7.76	6.75	6.14	5.59
2SC1117*	0.62	0.56	0.49	0.43
2SC1124*	2.48	2.23	2.01	1.81
2SC1127*	7.33	6.38	5.80	5.28
2SC1128*	0.62	0.56	0.49	0.43
2SC1129*	0.62	0.56	0.49	0.43
2SC1151*	6.20	5.21	4.53	3.94
2SC1153*	7.35	6.32	5.63	5.12
2SC1161	5.24	4.56	3.92	3.49
2SC1162	0.95	0.86	0.75	0.65
2SC1166	1.71	1.51	1.31	1.13
2SC1168*	2.97	2.61	2.27	1.96
2SC1170	6.38	5.48	4.88	4.44
2SC1172*	7.35	6.32	5.63	5.12
2SC1172B	7.35	6.32	5.63	5.12
2SC1173*	2.09	1.84	1.60	1.37
2SC1174*	4.50	3.87	3.44	3.13
2SC1175	1.11	0.98	0.85	0.73
2SC1184	7.62	6.63	6.04	5.49
2SC1209	1.33	1.17	1.02	0.88
2SC1210	1.07	0.94	0.82	0.71
2SC1211	1.83	1.61	1.40	1.20
2SC1212	1.60	1.41	1.23	1.05
2SC1213	0.39	0.35	0.31	0.27
2SC1214	1.16	1.02	0.89	0.76
2SC1215	0.61	0.55	0.49	0.42
2SC1222	0.75	0.67	0.59	0.51
2SC1226	2.31	2.03	1.77	1.52
2SC1237*	2.13	1.87	1.63	1.40
2SC1285	0.32	0.29	0.25	0.22
2SC1295*	3.75	3.23	2.87	2.61
2SC1306*	5.04	4.54	4.08	3.67
2SC1308*	3.75	3.23	2.87	2.61
2SC1309*	4.50	3.87	3.44	3.13
2SC1312*	0.27	0.24	0.21	0.18
2SC1313*	0.49	0.44	0.38	0.33
2SC1317	0.95	0.86	0.75	0.65
2SC1318	0.38	0.34	0.30	0.26
2SC1327	0.45	0.40	0.35	0.31
2SC1328	0.57	0.51	0.45	0.39
2SC1335	1.18	1.07	0.94	0.82
2SC1342	0.45	0.41	0.36	0.31
2SC1343	9.66	8.40	7.64	6.96
2SC1344*	0.49	0.44	0.38	0.33
2SC1345	0.58	0.53	0.46	0.40
2SC1346	1.05	0.95	0.83	0.73
2SC1348	33.99	29.91	27.22	25.04
2SC1358	8.29	7.13	6.34	5.77
2SC1359	0.41	0.37	0.33	0.28
2SC1360	1.10	0.97	0.84	0.73
2SC1362	1.41	1.24	1.08	0.93
2SC1363	1.30	1.14	0.99	0.85
2SC1364*	0.56	0.51	0.44	0.39
2SC1365	12.52	10.90	9.92	9.02
2SC1368	1.06	0.93	0.81	0.70
2SC1382	2.19	1.92	1.67	1.44
2SC1383	0.65	0.58	0.51	0.45
2SC1384	0.74	0.66	0.58	0.51
2SC1385	9.93	8.64	7.86	7.16
2SC1386	15.27	13.29	12.09	11.12

*MCM is not able to supply this number.
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ORDER #	1-4	5-9	10-29	30-99
2SC1389*	0.56	0.51	0.44	0.39
2SC1390*	0.27	0.24	0.21	0.18
2SC1398	2.82	2.48	2.16	1.85
2SC1400*	1.04	0.94	0.83	0.72
2SC1402*	7.76	6.75	6.14	5.59
2SC1403*	7.76	6.75	6.14	5.59
2SC1413	5.36	4.61	4.10	3.73
2SC1416*	1.59	1.40	1.22	1.05
2SC1417	0.24	0.22	0.19	0.17
2SC1419*	2.13	1.87	1.63	1.40
2SC1426	14.75	12.83	11.68	10.63
2SC1431	6.30	5.42	4.82	4.39
2SC1438*	1.59	1.40	1.22	1.05
2SC1439*	1.59	1.40	1.22	1.05
2SC1444	5.08	4.37	3.89	3.54
2SC1445	5.08	4.37	3.89	3.54
2SC1446*	2.72	2.45	2.20	1.98
2SC1447	2.72	2.45	2.20	1.98
2SC1448*	1.55	1.37	1.19	1.02
2SC1449	1.68	1.48	1.29	1.11
2SC1454	7.31	6.29	5.60	5.09
2SC1472	0.95	0.86	0.75	0.65
2SC1473	0.71	0.64	0.56	0.49
2SC1474	1.71	1.51	1.31	1.13
2SC1475*	0.75	0.68	0.59	0.52
2SC1501	2.70	2.38	2.07	1.78
2SC1505	1.80	1.59	1.38	1.19
2SC1506	1.55	1.36	1.19	1.02
2SC1507	1.60	1.41	1.23	1.05
2SC1509	1.20	1.05	0.92	0.79
2SC1514	1.20	1.05	0.92	0.79
2SC1515	1.01	0.91	0.80	0.70
2SC1520	1.73	1.52	1.32	1.14
2SC1545	1.21	1.09	0.96	0.84
2SC1566	11.42	9.93	9.04	8.23
2SC1567	1.50	1.32	1.15	0.99
2SC1568	2.22	1.95	1.70	1.46
2SC1569*	2.72	2.45	2.20	1.98
2SC1570	0.60	0.54	0.47	0.41
2SC1571	0.39	0.35	0.31	0.27
2SC1573	0.96	0.84	0.73	0.63
2SC1577	7.23	6.21	5.53	5.03
2SC1579*	7.56	6.58	5.99	5.45
2SC1583	1.03	0.90	0.78	0.67
2SC1585*	8.68	7.55	6.87	6.25
2SC1586	8.68	7.55	6.87	6.25
2SC1619*	7.23	6.21	5.53	5.03
2SC1623	0.43	0.39	0.34	0.30
2SC1624	2.43	2.13	1.86	1.60
2SC1625	2.38	2.10	1.82	1.57
2SC1626	2.65	2.33	2.03	1.74
2SC1627	0.59	0.53	0.47	0.41
2SC1629	5.70	4.90	4.36	3.97
2SC1634	1.26	1.11	0.96	0.83
2SC1646	0.65	0.58	0.51	0.45
2SC1647*	0.29	0.26	0.23	0.20
2SC1652	0.59	0.54	0.47	0.41
2SC1664	6.06	5.21	4.64	4.22
2SC1667	6.62	5.69	5.07	4.61
2SC1669	2.01	1.77	1.54	1.32
2SC1674	0.46	0.42	0.37	0.32
2SC1675	0.55	0.50	0.44	0.38
2SC1678	2.77	2.41	2.07	1.84
2SC1681	2.08	1.83	1.59	1.37
2SC1682	2.39	2.11	1.83	1.58
2SC1683	2.02	1.77	1.54	1.33
2SC1684	0.39	0.35	0.31	0.27
2SC1685	0.37	0.34	0.30	0.26
2SC1686	2.14	1.88	1.64	1.41
2SC1687	0.47	0.42	0.37	0.32
2SC1688	1.20	1.05	0.92	0.79
2SC1708	1.04	0.93	0.82	0.71
2SC1723*	2.72	2.45	2.20	1.98
2SC1728	1.13	1.02	0.90	0.78



ORDER #	1-4	5-9	10-29	30-99
2SC1757*	1.60	1.41	1.23	1.05
2SC1760	0.81	0.73	0.64	0.56
2SC1766	0.49	0.44	0.38	0.33
2SC1768	7.91	6.80	6.05	5.51
2SC1775	0.62	0.56	0.49	0.43
2SC1815	0.23	0.21	0.19	0.16
2SC1816*	5.17	4.50	3.87	3.44
2SC1819	2.68	2.36	2.05	1.77
2SC1826	2.13	1.87	1.63	1.40
2SC1827	1.50	1.32	1.15	0.99
2SC1828	5.74	4.93	4.39	4.00
2SC1829	5.50	4.73	4.21	3.83
2SC1841	0.69	0.62	0.55	0.47
2SC1842	0.56	0.50	0.44	0.39
2SC1844	0.86	0.77	0.68	0.59
2SC1845	0.49	0.44	0.38	0.33
2SC1846	1.03	0.91	0.79	0.68
2SC1847	1.32	1.16	1.01	0.87
2SC1850*	0.56	0.51	0.44	0.39
2SC1855	1.14	1.02	0.90	0.78
2SC1871	9.50	8.27	7.52	6.85
2SC1875	7.65	6.58	5.86	5.33
2SC1885*	1.04	0.94	0.83	0.72
2SC1890	0.78	0.70	0.62	0.54
2SC1893	7.27	6.25	5.56	5.06
2SC1894	8.16	7.02	6.25	5.68
2SC1904*	3.19	2.78	2.39	2.12
2SC1906	0.63	0.57	0.50	0.43
2SC1907	0.62	0.56	0.49	0.43
2SC1908	0.41	0.36	0.32	0.28
2SC1913	2.96	2.58	2.22	1.97
2SC1914	0.87	0.79	0.69	0.60
2SC1915*	1.04	0.94	0.83	0.72
2SC1919	0.98	0.86	0.75	0.64
2SC1921	0.87	0.79	0.69	0.60
2SC1923	0.40	0.36	0.32	0.28
2SC1929	3.47	3.02	2.60	2.31
2SC1940	1.21	1.09	0.96	0.83
2SC1941	1.18	1.06	0.93	0.81
2SC1942*	4.50	3.87	3.44	3.13
2SC1944	6.69	5.76	5.12	4.66
2SC1945	8.26	7.19	6.54	5.95
2SC1946	22.99	20.23	18.41	16.93
2SC1951*	1.04	0.94	0.83	0.72
2SC1953	1.70	1.49	1.30	1.12
2SC1957	1.60	1.41	1.23	1.05
2SC1959	0.42	0.38	0.34	0.29
2SC1962	7.33	6.38	5.80	5.28
2SC1965	16.01	14.09	12.82	11.80
2SC1969	5.27	4.59	3.94	3.51
2SC1972	14.91	12.97	11.80	10.74
2SC1973	2.13	1.88	1.63	1.40
2SC1974*	5.17	4.50	3.87	3.44
2SC1975	5.17	4.50	3.87	3.44
2SC1980	0.93	0.84	0.74	0.64
2SC1983	2.76	2.43	2.11	1.82
2SC1984*	1.50	1.32	1.15	0.99
2SC1985	2.29	2.01	1.75	1.51
2SC1986	3.00	2.64	2.30	1.98
2SC2001	0.43	0.39	0.34	0.30
2SC2002	0.66	0.59	0.52	0.46
2SC2003	0.72	0.65	0.57	0.50
2SC2006	0.95	0.85	0.75	0.65
2SC2009*	0.62	0.56	0.49	0.43
2SC2020	10.32	8.97	8.17	7.43
2SC2021	0.32	0.29	0.26	0.22
2SC2023	2.31	2.03	1.77	1.52
2SC2026	1.58	1.39	1.21	1.04
2SC2027	5.00	4.30	3.83	3.48
2SC2028	2.94	2.56	2.20	1.96
2SC2029	5.34	4.64	3.99	3.55
2SC2036	2.97	2.61	2.27	1.95
2SC2053	2.81	2.47	2.15	1.85
2SC2057	1.32	1.17	1.01	0.87
2SC2060	0.64	0.58	0.51	0.44
2SC2061	0.73	0.66	0.58	0.50
2SC2063	0.71	0.64	0.56	0.49
2SC2068	1.47	1.29	1.12	0.97
2SC2071	2.20	1.93	1.68	1.45
2SC2073	1.83	1.61	1.40	1.20

ORDER #	1-4	5-9	10-29	30-99
2SC2074	1.13	1.02	0.90	0.78
2SC2075	2.98	2.63	2.28	1.96
2SC2076	1.39	1.22	1.06	0.91
2SC2078	2.17	1.91	1.66	1.43
2SC2086	1.76	1.55	1.35	1.16
2SC2088*	1.04	0.94	0.83	0.72
2SC2089	1.42	1.25	1.09	0.93
2SC2091*	0.95	0.84	0.73	0.63
2SC2120	0.39	0.35	0.31	0.27
2SC2141	6.10	5.24	4.67	4.25
2SC2153	1.05	0.95	0.83	0.73
2SC2166	4.68	4.07	3.50	3.11
2SC2167	2.21	1.94	1.69	1.45
2SC2168	2.39	2.11	1.83	1.58
2SC2188	1.05	0.94	0.83	0.72
2SC2206	1.13	0.99	0.86	0.74
2SC2209	1.59	1.40	1.22	1.05
2SC2210	2.52	2.22	1.93	1.66
2SC2213	4.44	3.86	3.32	2.95
2SC2228	0.75	0.67	0.59	0.51
2SC2229	0.77	0.69	0.61	0.53
2SC2230	1.12	1.01	0.89	0.77
2SC2231	1.45	1.28	1.11	0.95
2SC2233	2.60	2.29	1.99	1.71
2SC2235	1.22	1.09	0.96	0.84
2SC2236	0.87	0.78	0.69	0.60
2SC2237	9.76	8.49	7.73	7.03
2SC2238	1.25	1.10	0.96	0.82
2SC2240	0.47	0.42	0.37	0.32
2SC2243	5.74	4.93	4.39	4.00
2SC2244	15.31	13.32	12.12	11.03
2SC2246	4.96	4.27	3.80	3.46
2SC2259	1.12	0.98	0.85	0.73
2SC2260*	7.23	6.21	5.53	5.03
2SC2261	9.57	8.33	7.58	6.90
2SC2262	4.65	4.00	3.56	3.24
2SC2270	1.31	1.15	1.00	0.86
2SC2271	0.92	0.82	0.73	0.63
2SC2274	0.56	0.51	0.44	0.39
2SC2275	1.76	1.55	1.35	1.16
2SC2278	1.59	1.40	1.22	1.05
2SC2283	13.24	11.52	10.48	9.54
2SC2291	1.18	1.04	0.90	0.78
2SC2298	1.51	1.33	1.16	0.99
2SC2308	0.28	0.26	0.22	0.20
2SC2310	0.55	0.49	0.43	0.38
2SC2312	6.55	5.63	5.01	4.56
2SC2314	0.97	0.85	0.74	0.64
2SC2315	1.95	1.72	1.50	1.29
2SC2316	5.10	4.44	3.82	3.40
2SC2317	2.97	2.62	2.28	1.96
2SC2320	0.40	0.36	0.32	0.28
2SC2324	1.47	1.29	1.12	0.97
2SC2331	2.30	2.02	1.76	1.51
2SC2334	3.48	3.02	2.60	2.31
2SC2335	3.43	2.98	2.56	2.28
2SC2336	2.91	2.53	2.18	1.94
2SC2337*	7.23	6.21	5.53	5.03
2SC2344	1.55	1.37	1.19	1.02
2SC2347	0.57	0.51	0.45	0.39
2SC2348	0.74	0.66	0.58	0.51
2SC2354	5.24	4.56	3.92	3.49
2SC2360	1.39	1.22	1.06	0.91
2SC2362	0.57	0.51	0.45	0.39
2SC2363	0.53	0.48	0.42	0.37
2SC2365	7.84	6.74	6.00	5.46
2SC2368	1.57	1.38	1.20	1.03
2SC2369	1.29	1.13	0.98	0.85
2SC2371	1.89	1.66	1.45	1.24
2SC2373	3.42	2.98	2.56	2.28
2SC2375	1.59	1.40	1.22	1.05
2SC2377	0.49	0.44	0.38	0.33
2SC2378	0.73	0.66	0.58	0.50
2SC2382	42.56	38.75	38.75	38.75
2SC2383	1.02	0.90	0.78	0.67
2SC2389	0.60	0.54	0.47	0.41
2SC2398	24.08	21.19	19.28	17.74
2SC2404	0.79	0.71	0.63	0.55

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
2SC2411	0.68	0.61	0.54	0.47
2SC2412	0.35	0.31	0.28	0.24
2SC2420	31.66	29.13	29.13	29.13
2SC2438	4.99	4.29	3.82	3.47
2SC2441	3.19	2.78	2.39	2.12
2SC2456	1.58	1.39	1.21	1.04
2SC2458	0.27	0.24	0.21	0.18
2SC2459	0.36	0.32	0.28	0.25
2SC2461*	5.50	4.73	4.21	3.83
2SC2464	1.59	1.40	1.22	1.05
2SC2467	1.42	1.25	1.09	0.94
2SC2468	1.56	1.37	1.20	1.03
2SC2480*	0.62	0.56	0.49	0.43
2SC2481	1.59	1.40	1.22	1.05
2SC2482	0.88	0.79	0.69	0.60
2SC2483	2.39	2.11	1.83	1.58
2SC2484	4.83	4.21	3.62	3.22
2SC2485	5.95	5.12	4.55	4.14
2SC2486	2.77	2.41	2.07	1.84
2SC2491	4.22	3.67	3.16	2.81
2SC2497	1.37	1.21	1.05	0.90
2SC2500	1.17	1.05	0.92	0.80
2SC2501	5.04	4.39	3.77	3.36
2SC2502	4.42	3.80	3.38	3.08
2SC2507	22.01	19.37	17.63	16.22
2SC2522	7.59	6.53	5.81	5.29
2SC2525*	5.25	4.52	4.02	3.65
2SC2526*	8.26	7.10	6.32	5.75
2SC2528	4.73	4.12	3.54	3.15
2SC2535	4.03	3.51	3.02	2.69
2SC2539	15.63	13.60	12.37	11.26
2SC2542	3.30	2.87	2.47	2.20
2SC2543	1.13	1.01	0.89	0.78
2SC2544	1.09	0.98	0.87	0.75
2SC2545	0.75	0.67	0.59	0.51
2SC2546	0.84	0.76	0.67	0.58
2SC2548	2.92	2.54	2.18	1.94
2SC2549	1.50	1.32	1.15	0.99
2SC2555	4.25	3.69	3.18	2.83
2SC2558	11.81	10.28	9.35	8.51
2SC2559	37.00	32.56	29.63	27.26
2SC2562	2.39	2.11	1.83	1.58
2SC2564	5.02	4.32	3.84	3.50
2SC2565	8.26	7.10	6.32	5.75
2SC2570A	1.14	1.03	0.91	0.79
2SC2571	6.13	5.27	4.69	4.27
2SC2575*	0.38	0.34	0.30	0.26
2SC2577	4.44	3.86	3.32	2.96
2SC2578*	3.25	2.82	2.43	2.16
2SC2579	4.76	4.14	3.56	3.17
2SC2580	4.58	3.99	3.43	3.05
2SC2581	5.50	4.79	4.12	3.66
2SC2585	10.78	9.38	8.54	7.77
2SC2586	7.17	6.24	5.68	5.17
2SC2590	1.85	1.62	1.41	1.22
2SC2591	1.83	1.61	1.40	1.20
2SC2592	2.67	2.35	2.05	1.76
2SC2594	2.06	1.81	1.58	1.36
2SC2603	0.95	0.86	0.75	0.65
2SC2607	9.26	8.05	7.33	6.67
2SC2608	15.12	13.15	11.97	10.89
2SC2610	0.82	0.74	0.65	0.56
2SC2611	1.17	1.03	0.90	0.77
2SC2613	5.48	4.76	4.10	3.65
2SC2621	1.02	0.92	0.81	0.70
2SC2625	5.82	5.01	4.46	4.06
2SC2626	5.70	4.90	4.36	3.97
2SC2631	0.95	0.85	0.75	0.65
2SC2632	1.01	0.91	0.80	0.70
2SC2634	0.52	0.47	0.41	0.36
2SC2637	3.09	2.72	2.36	2.03
2SC2647	0.83	0.75	0.66	0.57
2SC2653	1.59	1.40	1.21	1.04
2SC2654	2.95	2.57	2.21	1.97
2SC2655	1.20	1.08	0.95	0.83
2SC2665*	2.99	2.60	2.24	1.99
2SC2668*	0.62	0.56	0.49	0.43
2SC2669	0.49	0.44	0.38	0.33
2SC2673	1.89	1.66	1.45	1.24
2SC2681	4.40	3.83	3.29	2.93



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
2SC2682	1.44	1.26	1.10	0.95
2SC2688	1.01	0.89	0.78	0.67
2SC2690	1.94	1.70	1.48	1.27
2SC2705	0.93	0.83	0.73	0.64
2SC2706	5.33	4.64	3.99	3.55
2SC2712	0.25	0.23	0.20	0.17
2SC2719	1.39	1.22	1.06	0.91
2SC2725	2.86	2.49	2.14	1.90
2SC2724	0.40	0.36	0.31	0.27
2SC2735	0.45	0.40	0.36	0.31
2SC2738	4.13	3.59	3.09	2.75
2SC2749	4.79	4.12	3.67	3.34
2SC2750	4.68	4.03	3.58	3.26
2SC2767	5.21	4.53	3.90	3.47
2SC2768	5.21	4.53	3.90	3.47
2SC2769	4.74	4.08	3.63	3.30
2SC2773	8.18	7.12	6.48	5.90
2SC2774	8.02	6.98	6.35	5.78
2SC2778	0.67	0.61	0.53	0.46
2SC2784	0.63	0.57	0.50	0.44
2SC2785	0.47	0.42	0.37	0.32
2SC2786	0.66	0.60	0.53	0.46
2SC2787	0.58	0.52	0.46	0.40
2SC2792	5.02	4.31	3.84	3.49
2SC2808	0.43	0.39	0.34	0.30
2SC2809	5.06	4.40	3.79	3.37
2SC2810	2.95	2.60	2.26	1.95
2SC2816	4.46	3.83	3.41	3.10
2SC2824	1.70	1.50	1.30	1.12
2SC2827	5.48	4.71	4.20	3.82
2SC2833	6.91	5.94	5.29	4.81
2SC2834	7.87	6.85	6.23	5.67
2SC2837	5.23	4.50	4.00	3.64
2SC2839*	0.62	0.56	0.49	0.43
2SC2877	1.53	1.35	1.17	1.01
2SC2878	0.51	0.46	0.40	0.35
2SC2898	7.38	6.35	5.65	5.14
2SC2900	4.22	3.67	3.16	2.81
2SC2909	0.69	0.62	0.55	0.47
2SC2910	1.04	0.94	0.83	0.72
2SC2911	1.47	1.30	1.13	0.97
2SC2912	1.81	1.59	1.38	1.19
2SC2914	5.65	4.86	4.33	3.94
2SC2921	8.13	6.99	6.22	5.66
2SC2922	10.23	8.90	8.10	7.37
2SC2923	2.33	2.05	1.78	1.53
2SC2928	7.69	6.69	6.09	5.54
2SC2929	3.74	3.25	2.80	2.49
2SC2944	7.80	6.79	6.18	5.62
2SC2958	1.04	0.91	0.80	0.68
2SC2959	1.18	1.04	0.91	0.78
2SC2979	5.06	4.40	3.79	3.37
2SC2981	15.77	13.88	12.63	11.62
2SC2987	5.38	4.62	4.11	3.74
2SC2991	25.95	22.84	20.78	19.12
2SC2999	0.44	0.39	0.35	0.30
2SC3012	4.99	4.34	3.73	3.32
2SC3026	8.50	7.31	6.51	5.92
2SC3039	2.82	2.45	2.11	1.88
2SC3042	5.17	4.50	3.87	3.44
2SC3047	5.21	4.48	3.99	3.63
2SC3064	0.84	0.76	0.67	0.58
2SC3065	1.19	1.07	0.94	0.82
2SC3066H	1.12	0.98	0.85	0.73
2SC3067	1.05	0.93	0.81	0.69
2SC3072	1.33	1.17	1.01	0.87
2SC3073	1.33	1.17	1.01	0.87
2SC3074	2.54	2.24	1.95	1.67
2SC3084	4.09	3.56	3.06	2.73
2SC3085	7.56	6.58	5.99	5.45
2SC3091	5.59	4.81	4.28	3.90
2SC3093	6.74	5.80	5.16	4.69
2SC3094	10.50	9.14	8.31	7.56
2SC3101	12.36	10.75	9.78	8.90
2SC3112	0.57	0.51	0.45	0.39
2SC3116	0.97	0.85	0.74	0.64
2SC3117	1.18	1.06	0.94	0.81
2SC3128	1.39	1.22	1.06	0.91
2SC3132	1.26	1.11	0.96	0.83
2SC3150	3.44	2.99	2.57	2.29

ORDER #	1-4	5-9	10-29	30-99
2SC3153	5.43	4.72	4.06	3.61
2SC3156	6.28	5.40	4.81	4.38
2SC3157	3.39	2.95	2.53	2.25
2SC3158	4.49	3.91	3.36	2.99
2SC3163	5.14	4.42	3.94	3.58
2SC3169	2.47	2.18	1.89	1.63
2SC3170	3.77	3.28	2.82	2.51
2SC3179	2.17	1.91	1.66	1.43
2SC3180	4.42	3.80	3.38	3.08
2SC3181	3.40	2.96	2.54	2.26
2SC3182	3.86	3.36	2.89	2.57
2SC3183	2.14	1.88	1.64	1.41
2SC3185	16.49	14.35	13.05	12.01
2SC3187	1.00	0.88	0.76	0.66
2SC3201	0.63	0.57	0.50	0.44
2SC3209	1.45	1.28	1.11	0.95
2SC3211	7.65	6.58	5.86	5.33
2SC3225	1.13	1.01	0.89	0.78
2SC3242	0.87	0.79	0.69	0.60
2SC3243	1.22	1.09	0.96	0.84
2SC3244	1.04	0.93	0.82	0.71
2SC3246	1.05	0.94	0.83	0.72
2SC3253	1.96	1.72	1.50	1.29
2SC3258	2.70	2.37	2.06	1.78
2SC3261	11.11	9.66	8.79	8.00
2SC3262	5.02	4.31	3.84	3.49
2SC3263	6.64	5.71	5.08	4.62
2SC3264	8.64	7.52	6.84	6.22
2SC3266	0.79	0.71	0.62	0.54
2SC3271	1.02	0.92	0.81	0.70
2SC3272	1.13	1.00	0.87	0.75
2SC3279	0.88	0.79	0.70	0.61
2SC3280	5.50	4.79	4.12	3.66
2SC3281	5.48	4.77	4.10	3.65
2SC3282A	93.32	85.50	85.50	85.50
2SC3284	6.94	6.04	5.49	5.00
2SC3293	2.15	1.90	1.65	1.42
2SC3296	1.93	1.70	1.48	1.27
2SC3298	1.95	1.72	1.49	1.28
2SC3299	2.21	1.95	1.69	1.46
2SC3300	6.24	5.36	4.77	4.34
2SC3306	4.47	3.89	3.34	2.97
2SC3307	11.45	9.96	9.07	8.25
2SC3310	3.13	2.76	2.40	2.06
2SC3311	0.51	0.45	0.40	0.35
2SC3312	0.49	0.44	0.39	0.34
2SC3317	2.85	2.48	2.14	1.19
2SC3318	5.25	4.56	3.92	3.49
2SC3320	6.52	5.60	4.99	4.54
2SC3330	0.42	0.38	0.33	0.29
2SC3331	0.31	0.28	0.24	0.21
2SC3345	3.13	2.73	2.35	2.09
2SC3346	3.53	3.07	2.64	2.35
2SC3353	5.61	4.82	4.29	3.91
2SC3358	1.28	1.13	0.98	0.85
2SC3374	1.01	0.91	0.80	0.70
2SC3399	0.50	0.45	0.40	0.35
2SC3400	0.41	0.36	0.32	0.28
2SC3402	0.41	0.36	0.32	0.28
2SC3412	13.23	11.51	10.47	9.53
2SC3415	1.04	0.94	0.83	0.72
2SC3416	1.00	0.88	0.77	0.66
2SC3417	1.18	1.06	0.93	0.81
2SC3419	2.18	1.92	1.67	1.44
2SC3420	1.44	1.26	1.10	0.95
2SC3421	2.50	2.18	1.87	1.66
2SC3422	1.10	0.97	0.84	0.72
2SC3423	1.05	0.92	0.80	0.69
2SC3444	1.04	0.94	0.83	0.72
2SC3449	3.56	3.10	2.67	2.37
2SC3450	4.55	3.91	3.48	3.17
2SC3461	6.75	5.81	5.17	4.70
2SC3466	5.47	4.70	4.19	3.81
2SC3467	1.06	0.95	0.84	0.73
2SC3482	6.07	5.22	4.65	4.23
2SC3486	6.06	5.21	4.64	4.22
2SC3498	17.56	15.45	14.06	12.93
2SC3502	1.27	1.12	0.97	0.84

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
2SC3503	1.20	1.05	0.92	0.79
2SC3505	7.72	6.72	6.11	5.56
2SC3514	2.11	1.86	1.62	1.39
2SC3519	7.78	6.69	5.95	5.42
2SC3552	9.15	7.96	7.25	6.59
2SC3577	5.50	4.79	4.12	3.66
2SC3581	1.03	0.93	0.82	0.71
2SC3599	4.26	3.70	3.18	2.83
2SC3620	1.50	1.32	1.15	0.99
2SC3621	1.69	1.49	1.30	1.12
2SC3659	7.11	6.19	5.63	5.13
2SC3666	0.98	0.88	0.78	0.68
2SC3668	1.20	1.08	0.95	0.83
2SC3680	8.08	6.95	6.18	5.63
2SC3686	6.27	5.39	4.80	4.37
2SC3708	0.61	0.55	0.49	0.42
2SC3746	1.54	1.36	1.18	1.02
2SC3752	2.80	2.44	2.10	1.87
2SC3789	1.02	0.92	0.81	0.70
2SC3795	3.91	3.40	2.92	2.60
2SC3807	1.05	0.92	0.80	0.69
2SC3831	6.98	6.01	5.34	4.86
2SC3840	2.48	2.18	1.90	1.63
2SC3852	3.93	3.42	2.94	2.61
2SC3853	4.43	3.85	3.31	2.95
2SC3854	4.59	3.95	3.52	3.20
2SC3855	5.82	5.00	4.45	4.05
2SC3856	6.95	5.98	5.32	4.84
2SC3857	12.19	10.61	9.65	8.78
2SC3858	10.23	8.90	8.10	7.37
2SC3870	3.91	3.40	2.92	2.60
2SC3883	5.33	4.58	4.08	3.71
2SC3890	3.77	3.28	2.82	2.51
2SC3892	5.99	5.15	4.58	4.17
2SC3902	0.98	0.86	0.75	0.64
2SC3904	2.72	2.40	2.08	1.79
2SC3907	5.14	4.42	3.93	3.58
2SC3944	2.36	2.07	1.80	1.55
2SC3948	7.25	6.31	5.74	5.22
2SC3964	1.62	1.42	1.24	1.07
2SC4024	2.83	2.49	2.16	1.86
2SC4026	4.57	3.97	3.42	3.04
2SC4052	5.04	4.34	3.86	3.51
2SC4073	3.91	3.40	2.92	2.60
2SC4107	2.96	2.60	2.27	1.95
2SC4108	4.44	3.86	3.32	2.95
2SC4130	6.46	5.55	4.94	4.50
2SC4137	0.86	0.77	0.68	0.59
2SC4159	1.36	1.19	1.04	0.89
2SC4388	8.00	6.88	6.12	5.57
2SC4418	3.14	2.73	2.35	2.09
2SC4437	5.14	4.42	3.94	3.58
2SD24	2.97	2.61	2.27	1.96
2SD30	1.27	1.11	0.97	0.83
2SD81*	4.94	4.25	3.78	3.44
2SD90*	5.47	4.70	4.18	3.81
2SD91	5.18	4.46	3.97	3.61
2SD92*	7.01	6.03	5.37	4.88
2SD93*	5.47	4.70	4.18	3.81
2SD94	5.47	4.70	4.18	3.81
2SD118*	7.23	6.21	5.53	5.03
2SD150*	5.08	4.37	3.89	3.54
2SD180*	4.94	4.25	3.78	3.44
2SD187	1.64	1.44	1.25	1.08
2SD188*	5.44	4.73	4.07	3.62
2SD198	5.57	4.79	4.26	3.88
2SD201	6.16	5.30	4.72	4.29
2SD213*	7.23	6.21	5.53	5.03
2SD217*	4.65	4.00	3.56	3.24
2SD218*	4.71	4.05	3.61	3.28
2SD220*	5.50	4.73	4.21	3.83
2SD227*	0.56	0.51	0.44	0.39
2SD234*	2.09	1.84	1.60	1.37
2SD235	2.09	1.84	1.60	1.37
2SD257*	5.67	4.87	4.34	3.95
2SD261*	2.81	2.41	2.03	1.76
2SD287*	7.23	6.21	5.53	5.03
2SD288	2.13	1.87	1.63	1.40
2SD290*	6.06	5.21	4.64	4.22
2SD291*	6.06	5.21	4.64	4.22



ORDER #	1-4	5-9	10-29	30-99
2SD292*	6.06	5.21	4.64	4.22
2SD313	1.00	0.88	0.77	0.66
2SD314*	2.13	1.87	1.63	1.40
2SD317*	2.13	1.87	1.63	1.40
2SD318*	2.13	1.87	1.63	1.40
2SD319	4.58	3.93	3.50	3.19
2SD325	2.47	2.17	1.89	1.63
2SD330*	2.09	1.84	1.60	1.37
2SD331*	2.09	1.84	1.60	1.37
2SD335*	4.94	4.25	3.78	3.44
2SD348*	3.75	3.23	2.87	2.61
2SD350	8.05	6.92	6.16	5.61
2SD353*	7.23	6.21	5.53	5.03
2SD355*	0.62	0.55	0.49	0.42
2SD356*	1.89	1.66	1.45	1.24
2SD357	1.83	1.61	1.40	1.21
2SD358	1.89	1.61	1.40	1.24
2SD359	1.95	1.71	1.49	1.28
2SD361*	2.13	1.87	1.63	1.40
2SD371	4.94	4.25	3.78	3.44
2SD381	1.97	1.73	1.51	1.30
2SD382	2.14	1.88	1.64	1.41
2SD386	1.97	1.73	1.50	1.29
2SD387	2.20	1.94	1.69	1.45
2SD388*	7.23	6.21	5.53	5.03
2SD389	2.16	1.90	1.65	1.42
2SD400	0.83	0.75	0.66	0.57
2SD401	1.25	1.10	0.96	0.82
2SD402	2.20	1.94	1.69	1.45
2SD414	1.55	1.37	1.19	1.02
2SD415	1.58	1.39	1.21	1.04
2SD424	5.50	4.73	4.21	3.83
2SD425*	7.23	6.21	5.53	5.03
2SD426*	7.23	6.21	5.53	5.03
2SD427	6.11	5.26	4.68	4.26
2SD428	5.29	4.60	3.95	3.52
2SD437	6.25	5.37	4.78	4.35
2SD438	0.75	0.68	0.59	0.52
2SD439	1.23	1.09	0.95	0.81
2SD467	0.49	0.44	0.39	0.34
2SD468	0.62	0.55	0.49	0.42
2SD471	0.85	0.77	0.68	0.59
2SD471A	0.92	0.82	0.72	0.63
2SD476	2.56	2.25	1.96	1.68
2SD478*	1.25	1.10	0.96	0.82
2SD525	1.50	1.32	1.15	0.99
2SD526	1.50	1.32	1.15	0.99
2SD531	3.20	2.78	2.39	2.13
2SD544*	1.50	1.32	1.15	0.99
2SD545	0.49	0.44	0.39	0.34
2SD549	1.54	1.36	1.18	1.01
2SD551	6.50	5.59	4.98	4.53
2SD553	2.97	2.61	2.27	1.95
2SD555	8.65	7.53	6.85	6.23
2SD557	6.40	5.50	4.90	4.46
2SD560	2.76	2.43	2.12	1.82
2SD568	5.16	4.49	3.86	3.44
2SD571	0.94	0.85	0.75	0.65
2SD575*	4.50	3.87	3.44	3.13
2SD582*	8.65	7.53	6.85	6.23
2SD592	1.08	0.97	0.85	0.74
2SD596	1.10	0.99	0.87	0.76
2SD600	0.95	0.84	0.73	0.63
2SD601	0.66	0.60	0.53	0.46
2SD602	0.79	0.71	0.63	0.55
2SD608*	1.55	1.37	1.19	1.02
2SD612	1.03	0.90	0.79	0.68
2SD613	1.61	1.42	1.24	1.06
2SD617	10.15	8.83	8.04	7.31
2SD626	8.33	7.16	6.38	5.80
2SD627*	4.50	3.87	3.44	3.13
2SD632*	7.56	6.58	5.99	5.45
2SD633	2.53	2.22	1.93	1.66
2SD635	2.49	2.19	1.91	1.64
2SD636	0.53	0.47	0.42	0.36
2SD637	0.43	0.39	0.34	0.30
2SD638	0.62	0.55	0.49	0.42
2SD639	0.60	0.54	0.47	0.41
2SD642	62.50	56.26	56.26	56.26
2SD649	6.08	5.23	4.66	4.24

ORDER #	1-4	5-9	10-29	30-99
2SD655	0.59	0.53	0.47	0.41
2SD661	0.68	0.61	0.54	0.47
2SD665*	7.28	6.26	5.57	5.07
2SD666	0.91	0.82	0.72	0.63
2SD667	0.82	0.74	0.65	0.56
2SD668	1.67	1.47	1.28	1.10
2SD669	1.20	1.06	0.92	0.79
2SD673	6.33	5.45	4.85	4.41
2SD676	5.50	4.73	4.21	3.83
2SD677	18.90	16.63	15.14	13.92
2SD686	2.85	2.51	2.18	1.87
2SD687	3.85	3.35	2.88	2.56
2SD688	5.03	4.38	3.77	3.35
2SD704*	1.50	1.32	1.15	0.99
2SD712*	1.50	1.32	1.15	0.99
2SD716	2.93	2.58	2.24	1.93
2SD717	3.73	3.24	2.79	2.48
2SD718	3.55	3.09	2.66	2.37
2SD721	2.76	2.40	2.06	1.83
2SD725	6.86	5.90	5.25	4.78
2SD726*	1.50	1.32	1.15	0.99
2SD727*	4.95	4.30	3.70	3.30
2SD728*	4.95	4.30	3.70	3.30
2SD731	2.53	2.23	1.94	1.67
2SD732	5.65	4.86	4.33	3.94
2SD733	7.23	6.21	5.53	5.03
2SD734	0.52	0.47	0.41	0.36
2SD735*	6.25	5.37	4.78	4.35
2SD736	5.02	4.32	3.84	3.50
2SD738	6.25	5.37	4.78	4.35
2SD743	2.19	1.93	1.68	1.44
2SD745*	5.25	4.52	4.02	3.65
2SD748	5.90	5.07	4.52	4.11
2SD755*	1.04	0.94	0.83	0.72
2SD756	1.02	0.90	0.78	0.67
2SD758	1.92	1.69	1.47	1.26
2SD759	1.55	1.37	1.19	1.02
2SD761	2.95	2.60	2.26	1.95
2SD762	2.27	2.00	1.74	1.49
2SD763	1.13	1.02	0.90	0.78
2SD764	5.84	5.02	4.47	4.07
2SD766	3.15	2.77	2.41	2.07
2SD771	0.49	0.44	0.38	0.33
2SD772	2.76	2.40	2.07	1.84
2SD773	0.95	0.84	0.73	0.63
2SD774	0.98	0.86	0.75	0.64
2SD777	5.31	4.57	4.07	3.70
2SD781	2.43	2.14	1.86	1.60
2SD789	0.96	0.85	0.74	0.63
2SD790*	0.90	0.68	0.59	0.52
2SD792	6.94	6.04	5.50	5.00
2SD793	1.04	0.92	0.80	0.69
2SD794	1.61	1.41	1.23	1.06
2SD809	1.36	1.20	1.04	0.90
2SD812	3.10	2.70	2.32	2.07
2SD814	0.81	0.73	0.64	0.56
2SD819	4.67	4.01	3.57	3.25
2SD820	5.00	4.30	3.83	3.48
2SD822	4.50	3.87	3.44	3.13
2SD823	2.27	2.00	1.74	1.50
2SD826	1.10	0.97	0.84	0.73
2SD833	3.99	3.47	2.98	2.66
2SD834	1.07	0.94	0.82	0.71
2SD836*	2.49	2.19	1.91	1.64
2SD837	2.55	2.25	1.95	1.68
2SD842	6.43	5.53	4.92	4.48
2SD843*	1.50	1.32	1.15	0.99
2SD844	3.84	3.34	2.87	2.56
2SD845	5.25	4.52	4.02	3.65
2SD847	5.76	4.95	4.41	4.01
2SD850	7.20	6.19	5.51	5.01
2SD856	1.90	1.67	1.46	1.25
2SD857*	2.13	1.87	1.63	1.40
2SD858*	2.99	2.60	2.24	1.99
2SD863	0.95	0.84	0.73	0.63
2SD866	3.70	3.22	2.76	2.46
2SD869	4.56	3.92	3.49	3.18
2SD870	5.10	4.44	3.82	3.40

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ORDER #	1-4	5-9	10-29	30-99
2SD871	7.69	6.69	6.09	5.54
2SD874	1.01	0.89	0.78	0.67
2SD875	0.98	0.88	0.77	0.67
2SD879	0.77	0.69	0.61	0.53
2SD880	1.12	0.99	0.86	0.74
2SD882	1.05	0.95	0.83	0.73
2SD884	3.39	2.95	2.54	2.26
2SD889	1.26	1.11	0.96	0.83
2SD893	1.18	1.04	0.91	0.78
2SD894	1.39	1.23	1.07	0.92
2SD895	2.99	2.60	2.24	1.99
2SD896	3.15	2.77	2.41	2.07
2SD897	5.58	4.80	4.27	3.88
2SD898	6.51	5.60	4.99	4.54
2SD900	7.65	6.58	5.85	5.33
2SD903	9.03	8.13	7.32	6.58
2SD904*	9.03	8.13	7.32	6.58
2SD905	8.18	7.12	6.48	5.90
2SD906*	9.03	8.13	7.32	6.58
2SD920	6.17	5.31	4.72	4.30
2SD921	2.20	1.94	1.69	1.45
2SD923*	4.40	3.83	3.29	2.93
2SD924	5.36	4.61	4.10	3.73
2SD946	1.99	1.75	1.52	1.31
2SD947	0.95	0.84	0.73	0.63
2SD950	7.11	6.11	5.44	4.95
2SD951	7.10	6.10	5.43	4.94
2SD957	6.56	5.64	5.02	4.57
2SD958	0.87	0.79	0.69	0.60
2SD960*	5.21	4.48	3.99	3.63
2SD965	0.89	0.80	0.71	0.61
2SD966	1.08	0.97	0.85	0.74
2SD968A	1.32	1.16	1.01	0.87
2SD973	0.98	0.86	0.75	0.65
2SD985	1.74	1.53	1.33	1.14
2SD986	1.47	1.29	1.12	0.97
2SD992	1.23	1.08	0.94	0.81
2SD993*	7.65	6.58	5.85	5.33
2SD994	12.38	10.77	9.80	8.92
2SD1011	0.81	0.73	0.64	0.56
2SD1012	2.15	1.89	1.65	1.42
2SD1015	5.59	4.81	4.28	3.89
2SD1016*	9.03	8.13	7.32	6.58
2SD1017	7.70	6.93	6.33	6.93
2SD1020	0.83	0.74	0.65	0.57
2SD1030	0.57	0.51	0.45	0.39
2SD1032	2.27	2.00	1.74	1.49
2SD1044	4.93	4.29	3.69	3.29
2SD1046	3.25	2.82	2.43	2.16
2SD1047	4.40	3.83	3.29	2.93
2SD1049	6.76	5.88	5.35	4.87
2SD1051	1.42	1.25	1.09	0.94
2SD1055	1.17	1.05	0.92	0.80
2SD1060	1.31	1.15	1.00	0.86
2SD1061	1.98	1.75	1.52	1.31
2SD1062	2.32	2.04	1.77	1.53
2SD1063	3.24	2.82	2.42	2.16
2SD1064*	0.66	0.59	0.52	0.45
2SD1065	4.39	3.82	3.28	2.92
2SD1092	4.46	3.88	3.34	2.97
2SD1094	5.34	4.59	4.09	3.72
2SD1110	4.71	4.10	3.52	3.14
2SD1111	1.03	0.92	0.81	0.71
2SD1118	5.44	4.73	4.07	3.62
2SD1131	2.14	1.88	1.64	1.41
2SD1133	2.77	2.44	2.12	1.83
2SD1134	2.11	1.86	1.62	1.39
2SD1136	2.80	2.44	2.10	1.87
2SD1138	2.03	1.79	1.55	1.34
2SD1140	1.17	1.03	0.89	0.77
2SD1148	4.25	3.69	3.18	2.83
2SD1153	1.06	0.96	0.84	0.73
2SD1159	1.27	1.12	0.98	0.84
2SD1163	3.29	2.86	2.46	2.19
2SD1164	1.68	1.48	1.29	1.11
2SD1171	6.35	5.46	4.86	4.42
2SD1172	7.93	6.82	6.07	5.52
2SD1173	7.10	6.10	5.43	4.94
2SD1175	8.51	7.41	6.74	6.13
2SD1185	6.62	5.69	5.07	4.61



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
2SD1186	6.84	5.88	5.23	4.76
2SD1189	1.28	1.13	0.98	0.84
2SD1190	2.76	2.40	2.06	1.83
2SD1192	2.82	2.48	2.16	1.86
2SD1195	1.29	1.14	0.99	0.85
2SD1196	1.98	1.74	1.51	1.30
2SD1197	4.11	3.57	3.07	2.74
2SD1198	2.27	2.00	1.74	1.49
2SD1207	0.92	0.82	0.72	0.63
2SD1212	2.21	1.95	1.69	1.46
2SD1213	4.88	4.24	3.65	3.25
2SD1221	1.86	1.64	1.42	1.22
2SD1225	1.03	0.93	0.81	0.71
2SD1225M	0.64	0.58	0.51	0.44
2SD1226	0.61	0.55	0.49	0.42
2SD1227	0.98	0.89	0.78	0.68
2SD1231	5.21	4.53	3.90	3.47
2SD1237	2.83	2.46	2.12	1.88
2SD1244	1.18	1.04	0.91	0.78
2SD1246	0.91	0.82	0.72	0.63
2SD1264	2.80	2.44	2.09	1.86
2SD1265	1.95	1.72	1.49	1.28
2SD1266	2.82	2.48	2.16	1.86
2SD1267	2.89	2.51	2.16	1.92
2SD1271	4.32	3.76	3.23	2.88
2SD1273	2.57	2.26	1.96	1.69
2SD1275	3.91	3.40	2.92	2.60
2SD1276	2.67	2.35	2.05	1.76
2SD1277	3.06	2.70	2.35	2.02
2SD1279	8.28	7.20	6.55	5.96
2SD1286	1.56	1.37	1.20	1.03
2SD1288	4.45	3.83	3.41	3.10
2SD1289	4.24	3.68	3.17	2.82
2SD1290	7.22	6.21	5.53	5.03
2SD1292	0.99	0.87	0.76	0.65
2SD1294	4.89	4.20	3.74	3.40
2SD1297	6.18	5.32	4.73	4.31
2SD1302	0.88	0.79	0.70	0.61
2SD1308	2.70	2.38	2.07	1.78
2SD1310	2.73	2.40	2.09	1.80
2SD1311	2.24	1.98	1.72	1.48
2SD1312	1.40	1.23	1.07	0.92
2SD1328	1.11	1.00	0.88	0.76
2SD1330	0.68	0.62	0.54	0.47
2SD1341	3.75	3.23	2.87	2.61
2SD1345	4.57	3.97	3.42	3.04
2SD1348	1.01	0.89	0.77	0.67
2SD1349	5.16	4.44	3.95	3.60
2SD1380	1.16	1.04	0.92	0.80
2SD1384	1.18	1.06	0.93	0.81
2SD1392	2.65	2.33	2.03	1.74
2SD1395	1.69	1.49	1.29	1.11
2SD1396	4.19	3.65	3.14	2.79
2SD1397	4.24	3.68	3.17	2.82
2SD1398	5.06	4.40	3.78	3.37
2SD1399	5.48	4.72	4.20	3.82
2SD1402	4.80	4.18	3.59	3.20
2SD1403	4.91	4.22	3.76	3.42
2SD1405	2.38	2.09	1.82	1.57
2SD1406	1.32	1.16	1.01	0.87
2SD1407	2.31	2.03	1.77	1.52
2SD1408	2.07	1.82	1.59	1.36
2SD1411	3.37	2.93	2.52	2.24
2SD1412	2.81	2.44	2.10	1.87
2SD1415	2.52	2.22	1.93	1.66
2SD1425	6.24	5.37	4.78	4.35
2SD1426	5.01	4.35	3.74	3.33
2SD1427	6.53	5.61	5.00	4.55
2SD1428	4.25	4.00	3.75	3.50
2SD1429	6.53	5.62	5.00	4.55
2SD1431	6.08	5.22	4.65	4.23
2SD1432	7.79	6.78	6.17	5.61
2SD1433	8.90	7.75	7.05	6.41
2SD1438	1.45	1.28	1.11	0.95
2SD1439*	4.63	3.98	3.54	3.22
2SD1439RL	4.63	3.98	3.54	3.22
2SD1440	7.04	6.06	5.39	4.90
2SD1441	6.78	5.90	5.37	4.89
2SD1444	3.07	2.70	2.35	2.02
2SD1445	4.81	4.18	3.60	3.20

ORDER #	1-4	5-9	10-29	30-99
2SD1453	5.39	4.69	4.03	3.59
2SD1455	5.31	4.57	4.07	3.70
2SD1457	5.48	4.77	4.10	3.65
2SD1458	1.13	1.00	0.87	0.75
2SD1459	1.20	1.06	0.92	0.79
2SD1468	1.01	0.91	0.80	0.70
2SD1469	1.09	0.98	0.86	0.75
2SD1485	4.24	3.69	3.17	2.82
2SD1486	4.74	4.12	3.54	3.15
2SD1487	5.47	4.76	4.09	3.64
2SD1496	7.30	6.28	5.59	5.08
2SD1497	7.50	6.45	5.74	5.22
2SD1510	2.86	2.49	2.14	1.90
2SD1513	1.22	1.09	0.96	0.84
2SD1518	5.21	4.53	3.90	3.47
2SD1526	1.45	1.27	1.11	0.95
2SD1531	1.95	1.71	1.49	1.28
2SD1541	4.37	3.80	3.27	2.91
2SD1554	5.38	4.68	4.03	3.59
2SD1555	6.29	5.41	4.81	4.38
2SD1556	7.74	6.65	5.92	5.39
2SD1565	2.57	2.26	1.96	1.69
2SD1581	1.89	1.66	1.45	1.24
2SD1585	2.43	2.13	1.86	1.60
2SD1589	2.97	2.62	2.28	1.96
2SD1591	3.53	3.07	2.64	2.35
2SD1609	1.37	1.21	1.05	0.90
2SD1610	1.49	1.31	1.14	0.98
2SD1615	2.20	1.94	1.69	1.45
2SD1632	7.03	6.12	5.56	5.06
2SD1649	3.93	3.42	2.94	2.62
2SD1650	3.98	3.46	2.98	2.65
2SD1651	5.40	4.70	4.04	3.60
2SD1652	4.37	3.76	3.35	3.04
2SD1670	6.84	5.88	5.23	4.76
2SD1705	5.01	4.31	3.83	3.49
2SD1706	6.35	5.46	4.86	4.42
2SD1707	5.76	4.96	4.41	4.01
2SD1717	5.31	4.57	4.07	3.70
2SD1718	6.81	5.93	5.39	4.91
2SD1740	3.14	2.73	2.35	2.09
2SD1763	1.17	1.03	0.89	0.77
2SD1783	0.96	0.84	0.73	0.63
2SD1796	5.37	4.67	4.02	3.58
2SD1817	1.48	1.31	1.14	0.98
2SD1825	1.63	1.43	1.25	1.07
2SD1826	1.82	1.60	1.39	1.20
2SD1847	7.48	6.43	5.73	5.21
2SD1849	8.38	7.21	6.42	5.84
2SD1877	3.62	3.15	2.71	2.41
2SD1878	4.52	3.89	3.46	3.15
2SD1879	5.39	4.69	4.03	3.59
2SD1880	7.44	6.40	5.69	5.18
2SD1884	4.84	4.21	3.62	3.23
2SD1887	7.40	6.37	5.67	5.16
2SD1910	5.78	4.97	4.42	4.03
2SD1911	8.19	7.05	6.27	5.71
2SD1913	1.09	0.96	0.84	0.72
2SD1919	0.91	0.82	0.72	0.62
2SD1941	4.77	4.10	3.65	3.32
2SD1975	6.42	5.52	4.92	4.47
2SD2012	1.18	1.06	0.94	0.81
2SD2155	4.95	4.25	3.79	3.45

DTA & DTC TRANSISTORS

DTA114EF	0.47	0.42	0.37	0.32
DTA114ES	0.47	0.42	0.37	0.32
DTA124EA	0.30	0.27	0.24	0.21
DTA124EF	0.47	0.42	0.37	0.32
DTA124ES	0.47	0.42	0.37	0.32
DTA143ES	0.47	0.42	0.37	0.32
DTA144EA	0.30	0.27	0.24	0.21
DTA144EF	0.47	0.42	0.37	0.32
DTA144ES	0.47	0.42	0.37	0.32
DTA144TF	0.30	0.27	0.24	0.21
DTA144WA	0.30	0.27	0.24	0.21
DTA144WS	0.47	0.42	0.37	0.32
DTC114EA	0.30	0.27	0.24	0.21
DTC114EF	0.47	0.42	0.37	0.32

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
DTC114ES	0.47	0.42	0.37	0.32
DTC124EA	0.30	0.27	0.24	0.21
DTC124EF	0.47	0.42	0.37	0.32
DTC124ES	0.47	0.42	0.37	0.32
DTC143XS	0.47	0.42	0.37	0.32
DTC144EA	0.30	0.27	0.24	0.21
DTC144EF	0.47	0.42	0.37	0.32
DTC144EK	0.47	0.42	0.37	0.32
DTC144ES	0.47	0.42	0.37	0.32
DTC144TK	0.47	0.42	0.37	0.32
DTC144WK	0.47	0.42	0.37	0.32
DTC144WS	0.47	0.42	0.37	0.32

FETs

2SJ49	11.88	10.34	9.41	8.56
2SJ72	3.55	3.09	2.66	2.37
2SJ72BL	3.71	3.23	2.78	2.47
2SK19*	1.28	1.15	1.04	0.93
2SK30A	0.65	0.59	0.51	0.45
2SK34	2.27	2.00	1.74	1.49
2SK40	1.50	1.32	1.15	0.99
2SK41	1.42	1.25	1.08	0.93
2SK54	1.11	1.00	0.88	0.76
2SK55	1.08	0.95	0.83	0.71
2SK68A	1.22	1.09	0.96	0.84
2SK83	2.14	1.88	1.64	1.41
2SK104E	1.15	1.04	0.91	0.79
2SK105*	1.73	1.56	1.40	1.26
2SK107	2.98	2.59	2.23	1.99
2SK109	4.34	3.73	3.32	3.02
2SK112	7.14	6.14	5.46	4.97
2SK117	1.01	0.91	0.80	0.70
2SK135	9.38	8.16	7.43	6.76
2SK141	4.93	4.24	3.77	3.43
2SK147	2.71	2.38	2.07	1.78
2SK150	5.30	4.56	4.06	3.69
2SK161	1.22	1.09	0.96	0.84
2SK163	1.32	1.16	1.01	0.87
2SK168	0.98	0.88	0.78	0.67
2SK170	1.04	0.91	0.80	0.68
2SK192	1.09	0.98	0.87	0.75
2SK193	1.23	1.08	0.94	0.81
2SK195	1.27	1.12	0.97	0.83
2SK212	0.90	0.81	0.72	0.62
2SK241Y	1.12	1.01	0.89	0.77
2SK246	0.63	0.57	0.50	0.44
2SK301	0.91	0.82	0.72	0.63
2SK359	1.03	0.93	0.82	0.71
2SK365	0.93	0.83	0.73	0.64
2SK369	1.07	0.96	0.85	0.74
2SK373	0.87	0.78	0.69	0.60
2SK381	0.78	0.70	0.62	0.54
2SK388	9.87	8.58	7.81	7.11
2SK389	2.93	2.55	2.19	1.95
2SK557	7.20	6.19	5.51	5.01
2SK606	1.22	1.09	0.96	0.84
3SK22*	2.50	2.18	1.87	1.66
3SK34*	2.50	2.18	1.87	1.66
3SK37*	4.01	3.48	3.00	2.67
3SK39	2.84	2.49	2.17	1.87
3SK40	2.50	2.18	1.87	1.66
3SK45	4.80	4.03	3.51	3.05
3SK48	5.12	4.45	3.83	3.41
3SK49	2.50	2.18	1.87	1.66
3SK51	3.29	2.86	2.46	2.19
3SK73	1.54	1.35	1.18	1.01
3SK74	1.33	1.17	1.02	0.88
3SK88	1.48	1.31	1.14	0.98
3SK107	1.01	0.89	0.77	0.66
3SK122	1.21	1.06	0.93	0.80
3SK123	2.01	1.77	1.54	1.32
3SK186	1.46	1.29	1.12	0.96

AMERICAN SEMICONDUCTORS

2N176	6.48	5.44
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ORDER #	1-4	5-9	10-29	30-99
2N2219	1.40	1.23	1.07	0.90
2N2222A	0.98	0.86	0.75	0.63
2N2374	7.20	6.05	5.26	4.58
2N2857	3.06	2.63	2.21	1.92
2N2905	1.26	1.11	0.96	0.81
2N2907	0.98	0.86	0.75	0.63
2N3053	1.46	1.29	1.12	0.94
2N3054	3.05	2.68	2.34	1.96
2N3055	2.81	2.47	2.15	1.80
2N3252	2.92	2.54	2.18	1.94
2N3391	0.65	0.58	0.51	0.45
2N3403	2.75	2.42	2.10	1.77
2N3405	2.81	2.41	2.03	1.76
2N3439	2.96	2.60	2.27	1.90
2N3440	2.39	2.10	1.83	1.54
2N3563	1.59	1.40	1.21	1.02
2N3564	1.45	1.28	1.11	0.95
2N3566	2.20	1.93	1.68	1.41
2N3567	1.58	1.39	1.21	1.04
2N3567N	2.20	1.93	1.68	1.41
2N3568	1.53	1.34	1.17	0.98
2N3583	5.00	4.30	3.61	3.14
2N3638	1.53	1.34	1.17	0.98
2N3644	1.62	1.42	1.24	1.04
2N3711	0.80	0.72	0.64	0.55
2N3713	3.06	2.63	2.21	1.92
2N3716	4.79	4.16	3.58	3.19
2N3731	21.28	18.30	16.47	14.82
2N3739*	2.88	2.53	2.20	1.85
2N3766	2.80	2.41	2.03	1.76
2N3771	5.04	4.23	3.68	3.20
2N3772	4.56	3.83	3.33	2.90
2N3773	5.40	4.54	3.95	3.43
2N3792	4.62	4.02	3.46	3.08
2N3859	0.97	0.87	0.77	0.67
2N3904	0.50	0.45	0.40	0.34
2N3905	0.32	0.29	0.26	0.22
2N3906	0.26	0.24	0.21	0.18
2N4124	0.37	0.33	0.29	0.25
2N4356	1.95	1.72	1.49	1.26
2N4401	0.34	0.30	0.27	0.23
2N4402	0.41	0.36	0.32	0.28
2N4403	0.41	0.36	0.32	0.28
2N4427	3.67	3.16	2.65	2.31
2N4900	4.80	4.03	3.51	3.05
2N4912	4.33	3.73	3.13	2.72
2N4921*	1.68	1.51	1.36	1.22
2N5086	0.80	0.72	0.64	0.55
2N5087	0.65	0.58	0.51	0.45
2N5089	0.57	0.51	0.45	0.39
2N5222	1.07	0.94	0.82	0.71
2N5296	1.71	1.50	1.31	1.10
2N5320	2.81	2.48	2.15	1.81
2N5322	2.87	2.52	2.19	1.84
2N5401	0.47	0.42	0.37	0.32
2N5415	2.44	2.15	1.87	1.57
2N5458	1.77	1.56	1.35	1.14
2N5490*	2.39	2.15	1.94	1.74
2N5550	1.01	0.90	0.80	0.69
2N5551	0.94	0.84	0.74	0.65
2N5630	6.80	5.71	4.97	4.32
2N5631	7.65	6.58	5.86	5.33
2N5655	1.84	1.66	1.49	1.34
2N5840	5.00	4.20	3.65	3.18
2N5886	7.00	5.88	5.12	4.45
2N5950	1.83	1.61	1.40	1.18
2N6027	1.53	1.34	1.17	0.98
2N6030	7.24	6.08	5.29	4.60
2N6031	10.72	9.22	8.02	7.22
2N6043	2.08	1.83	1.59	1.37
2N6052	5.23	4.55	3.91	3.48
2N6073	2.44	2.15	1.87	1.57
2N6102*	2.34	2.10	1.89	1.70
2N6107	2.14	1.88	1.63	1.37
2N6122	1.77	1.56	1.35	1.14
2N6125*	2.40	2.16	1.94	1.75
2N6126*	2.35	2.07	1.80	1.51
2N6211	5.20	4.37	3.80	3.31
2N6254	4.56	3.83	3.33	2.90
2N6282	6.38	5.48	4.88	4.44

ORDER #	1-4	5-9	10-29	30-99
2N6284	7.86	6.76	6.02	5.48
2N6285	5.31	4.57	4.07	3.70
2N6287	8.58	7.38	6.42	5.78
2N6387*	1.73	1.52	1.33	1.11
2N6395	2.75	2.42	2.10	1.77
2N6404	5.12	4.45	3.83	3.41
2N6427	1.01	0.90	0.80	0.69
2N6487	2.90	2.55	2.22	1.86
2N6488	2.26	1.99	1.73	1.45
2N6490	2.30	2.02	1.76	1.48
2N6491	2.01	1.77	1.54	1.29
2N6551	2.96	2.61	2.27	1.95
2N6552	3.30	2.87	2.47	2.20
2N6553	2.84	2.49	2.17	1.87
2N6554	2.71	2.38	2.07	1.78
2N6555	2.71	2.38	2.07	1.78
2N6576	4.69	4.04	3.39	2.95
2N6577	4.59	3.95	3.32	2.88
2N6593	2.44	2.15	1.87	1.57
2N6687	19.31	16.60	14.44	13.00
2N6708	2.52	2.22	1.93	1.66
2N6714	1.89	1.66	1.45	1.24
2N6728	1.04	0.91	0.79	0.67
3N201	11.70	10.06	8.75	7.88
79M05	1.53	1.34	1.17	0.98
79M12	2.93	2.58	2.24	1.88
BU208	4.91	4.22	3.55	3.09
BU406	2.87	2.52	2.19	1.84
BU508	5.09	4.43	3.81	3.39
BU508V	4.95	4.31	3.70	3.30
BUY69A	6.60	5.54	4.82	4.20
IRF252	15.02	12.91	11.23	10.11
IRF511	4.95	4.25	3.57	3.11
IRF740	6.60	5.54	4.82	4.20
IRF830	5.10	4.39	3.68	3.21
IRF9530	8.00	6.72	5.85	5.09
L78NR05	4.16	3.49	3.04	2.64
MJ410	5.00	4.20	3.65	3.18
MJ2955	3.77	3.24	2.72	2.37
MJ3055	2.21	1.95	1.69	1.42
MJ11013	11.70	10.06	8.75	7.88
MJ11014	13.07	11.24	9.78	8.80
MJ15022	10.29	8.85	7.70	6.93
MJ15023	14.00	12.04	10.48	9.43
MJE180	1.89	1.66	1.45	1.24
MJE350	2.20	1.94	1.69	1.45
MJE722	3.30	2.87	2.47	2.20
MJE802	3.75	3.23	2.71	2.36
MJE2955	2.92	2.51	2.11	1.83
MJE3055	8.00	6.72	5.85	5.09
MJE13005	2.44	2.15	1.87	1.57
MPS6562	0.98	0.86	0.75	0.63
MPS6571	0.80	0.72	0.64	0.55
MPS8099	1.40	1.23	1.07	0.90
MPS8599	1.02	0.90	0.78	0.66
MPSA05	0.47	0.42	0.37	0.32
MPSA06	0.40	0.36	0.32	0.28
MPSA13	0.54	0.48	0.42	0.37
MPSA20	0.54	0.48	0.42	0.37
MPSA42	0.70	0.63	0.56	0.48
MPSA43	0.57	0.51	0.45	0.39
MPSA55	0.65	0.59	0.52	0.45
MPSA56	0.50	0.45	0.40	0.34
MPSA64	0.89	0.80	0.71	0.61
MPSA70	0.50	0.45	0.40	0.34
MPSA92	0.79	0.71	0.63	0.54
MPSA93	0.80	0.72	0.64	0.55
MPSU02	2.38	2.09	1.82	1.53
MPSU04	2.74	2.41	2.10	1.76
MPSU07	3.57	3.07	2.58	2.24
MPSU10	1.65	1.45	1.26	1.06
MPSU52	2.50	2.20	1.91	1.61
MPSU56	2.75	2.42	2.10	1.77
MPSU57*	3.18	2.73	2.29	2.00
N82S123N	4.59	3.95	3.32	2.88
N82S23N	8.00	6.72	5.85	5.09
S6080A	7.60	6.39	5.56	4.83
SJE2003*	3.50	3.01	2.53	2.20

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
TIP29C	1.26	1.11	0.96	0.81
TIP30*	1.19	1.05	0.91	0.76
TIP30A*	1.19	1.05	0.91	0.76
TIP30B*	1.19	1.05	0.91	0.76
TIP30C	1.19	1.05	0.91	0.76
TIP31A	1.10	0.97	0.84	0.71
TIP31B*	0.95	0.86	0.76	0.66
TIP31C	1.59	1.40	1.21	1.02
TIP32A*	0.97	0.87	0.77	0.67
TIP32C	0.97	0.87	0.77	0.67
TIP33	3.06	2.63	2.21	1.92
TIP33C	4.03	3.46	2.91	2.53
TIP34	2.20	1.93	1.68	1.41
TIP34C	3.58	3.11	2.67	2.38
TIP35	4.52	3.80	3.30	2.87
TIP41*	2.13	1.87	1.63	1.37
TIP41C	2.13	1.87	1.63	1.37
TIP42*	2.10	1.85	1.61	1.35
TIP42A*	2.10	1.85	1.61	1.35
TIP42C	2.10	1.85	1.61	1.35
TIP48	2.44	2.15	1.87	1.57
TIP100	1.71	1.50	1.31	1.10
TIP101	1.53	1.34	1.17	0.98
TIP102	2.44	2.15	1.87	1.57
TIP106	1.83	1.61	1.40	1.18
TIP107	1.83	1.61	1.40	1.18
TIP110	1.98	1.74	1.52	1.27
TIP112	2.58	2.22	1.86	1.62
TIP115	1.43	1.25	1.09	0.92
TIP116	1.65	1.45	1.26	1.06
TIP117	2.34	2.11	1.90	1.71
TIP120	2.14	1.88	1.63	1.37
TIP121	2.98	2.56	2.15	1.87
TIP122	1.73	1.52	1.33	1.11
TIP125	1.48	1.30	1.13	0.95
TIP126	1.43	1.26	1.09	0.92
TIP127	1.43	1.26	1.09	0.92
TIP131	3.43	2.95	2.48	2.15
TIP135*	2.34	2.11	1.90	1.71
TIP136*	2.34	2.11	1.90	1.71
TIP137	2.01	1.77	1.54	1.29
TIP140	3.37	2.90	2.44	2.12
TIP141	3.57	3.07	2.58	2.24
TIP142	3.44	2.96	2.48	2.16
TIP146	4.08	3.51	2.95	2.56
TIP147	4.49	3.86	3.24	2.82
TIP2955	3.83	3.29	2.76	2.40
TIP3055	4.59	3.95	3.32	2.88
TL431CP	2.87	2.52	2.19	1.84
MRF OUTPUTS				
MRF450	36.28	31.20	28.08	25.27
MRF450A	27.00	23.76	21.62	19.89
MRF453	36.00	31.68	28.83	26.52
MRF453A	36.00	31.68	28.83	26.52
MRF454	48.10	41.37	37.23	33.51
MRF454A	39.00	34.32	31.23	28.73
MRF455	30.00	26.40	24.02	22.10
MRF455A	30.00	26.40	24.02	22.10
MRF477	31.50	27.72	25.23	23.21
MRF646	44.59	39.24	35.71	32.85
MRF901	5.41	4.65	4.14	3.77
TRIACs				
600V 10A	USE ERS5637			
600V 10A	ISOLATED TAB USE ERS5645			
SCRs				
200V 10A	USE ERS5463			
400V 4A	USE ERS5465			
600V 10A	USE ERS5466			
POWER DIODES				
2.5A 1KV	0.13	0.12	0.10	0.09
3A 1KV	0.53	0.48	0.42	0.37
6A 1KV	0.75	0.58	0.58	0.58
MISCELLANEOUS DIODES				
1N34A	0.47	0.42	0.37	0.32
1N46*	0.13	0.12	0.11	0.09
1N60	0.73	0.66	0.58	0.50
1N91	5.65	4.86	4.33	3.94
1N662	0.08	0.07	0.06	0.05
1N721	0.54	0.48	0.42	0.37
1N914	0.10	0.09	0.08	0.07



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
1N4001	0.11	0.10	0.09	0.08
1N4002*	0.13	0.12	0.11	0.09
1N4003*	0.20	0.18	0.16	0.14
1N4004	0.12	0.11	0.10	0.08
1N4005	0.15	0.14	0.12	0.10
1N4006	0.13	0.11	0.10	0.09
1N4007	0.19	0.17	0.15	0.13
1N4148	0.09	0.08	0.07	0.06
1N4448	0.20	0.18	0.16	0.14
1N4733	0.39	0.35	0.31	0.27
1N4747	0.54	0.48	0.42	0.37
1N4753	0.54	0.48	0.42	0.37
1N4756	0.54	0.48	0.42	0.37
1N4760	1.01	0.90	0.80	0.69
1N4762	1.45	1.28	1.11	0.95
1N4763	0.27	0.24	0.21	0.18
1N4936	1.01	0.90	0.80	0.69
1N4937	1.01	0.90	0.80	0.69
1N5062	1.05	0.95	0.83	0.73
1N5231	0.49	0.44	0.39	0.34
1N5245	0.54	0.48	0.42	0.37
1N5260B	0.54	0.48	0.42	0.37
1N5347	1.53	1.34	1.17	0.98
1N5357B	2.26	1.99	1.73	1.45
1N5366	0.73	0.66	0.58	0.50
1N5367	1.64	1.45	1.26	1.06
1N5392	0.73	0.66	0.58	0.50
1N5399	1.01	0.90	0.80	0.69
1N5407	0.67	0.60	0.53	0.46
1N5995	1.83	1.61	1.40	1.18
1S188	0.53	0.48	0.42	0.36
1S234	8.78	7.64	6.96	6.33
1S1554	0.26	0.23	0.21	0.18
1S1555	0.07	0.06	0.05	0.05
1S2076	0.16	0.14	0.12	0.11
1S2471	0.19	0.17	0.15	0.13
1S2473	0.16	0.15	0.13	0.11
1SS98	0.99	0.89	0.79	0.68
1SS99	0.84	0.76	0.67	0.58
1SS119	0.19	0.17	0.15	0.13
1SV84	0.67	0.60	0.53	0.46
1SV113	0.13	0.12	0.11	0.09
DS1P	0.34	0.30	0.27	0.23
GH3F	2.69	2.37	2.06	1.77
MA165	0.24	0.22	0.19	0.17
MR501	0.45	0.41	0.36	0.31
SID 30-15	4.85	4.17	3.50	3.05
STV-4H	2.35	2.07	1.80	1.55
TD-15*	3.25	2.82	2.43	2.16
V-11N	2.75	2.42	2.11	1.81

ZENER DIODES (1 WATT)

3.3V (1N4728A)	0.37	0.33	0.29	0.25
5.1V (1N4733)	0.37	0.33	0.29	0.25
5.6V (1N4734A)	0.37	0.33	0.29	0.25
6.2V (1N4735A)	0.49	0.44	0.38	0.33
6.8V (1N4736)	0.41	0.36	0.32	0.28
7.5V (1N4737)	0.49	0.44	0.38	0.33
8.2V (1N4738)	0.49	0.44	0.38	0.33
9.1V (1N4739)	0.49	0.44	0.38	0.33
10V (1N4740)	0.37	0.33	0.29	0.25
11V (1N4741)	0.37	0.33	0.29	0.25
12V (1N4742)	0.49	0.44	0.38	0.33
13V (1N4743)	0.34	0.30	0.27	0.23
15V (1N4744)	0.60	0.54	0.48	0.42
16V (1N4745)	0.38	0.34	0.30	0.26
18V (1N4746)	0.49	0.44	0.38	0.33
20V (1N4747)	0.60	0.54	0.48	0.42
22V (1N4748)	0.38	0.34	0.30	0.26
24V (1N4749)	0.49	0.44	0.38	0.33
27V (1N4750)	0.49	0.44	0.38	0.33

JAPANESE ICs

AN136	7.10	6.10	5.43	4.94
AN210	6.08	5.23	4.65	4.23
AN214	3.95	3.44	2.96	2.63
AN217	2.99	2.63	2.29	1.97
AN221*	2.34	2.06	1.79	1.54
AN225*	8.82	7.93	7.14	6.43
AN227	8.35	7.26	6.61	6.02
AN236	5.83	5.01	4.46	4.06
AN240	2.54	2.23	1.94	1.67

ORDER #	1-4	5-9	10-29	30-99
AN241	3.68	3.20	2.75	2.45
AN262	3.92	3.41	2.94	2.61
AN264	0.95	0.85	0.75	0.65
AN272	3.30	2.87	2.47	2.20
AN274	5.27	4.53	4.03	3.67
AN278	2.02	1.77	1.54	1.33
AN287	4.84	4.21	3.62	3.22
AN301	10.46	9.10	8.28	7.54
AN305	6.69	5.75	5.12	4.66
AN315	8.56	7.45	6.78	6.17
AN318	11.30	9.83	8.94	8.14
AN355	4.50	3.87	3.44	3.13
AN360	2.46	2.16	1.88	1.62
AN362	3.89	3.39	2.91	2.59
AN363	3.50	3.05	2.62	2.33
AN366	3.03	2.63	2.26	2.01
AN370	2.52	2.22	1.93	1.66
AN374	2.20	1.94	1.69	1.45
AN377	3.69	3.21	2.76	2.45
AN608	3.43	2.99	2.57	2.29
AN612	4.32	3.76	3.23	2.88
AN640G	13.96	12.14	11.05	10.06
AN829	4.66	4.01	3.57	3.24
AN1358	1.39	1.22	1.06	0.91
AN2140	7.95	6.83	6.08	5.54
AN2210S	8.72	7.59	6.90	6.28
AN2340	10.46	9.10	8.28	7.54
AN3215	7.09	6.09	5.42	4.94
AN3215K	7.41	6.37	5.67	5.16
AN3224	4.44	3.86	3.32	2.95
AN3224K	4.70	4.09	3.52	3.13
AN3310	6.04	5.19	4.62	4.20
AN3310K	6.08	5.23	4.65	4.23
AN3311	8.45	7.35	6.69	6.09
AN3313	4.52	3.89	3.46	3.15
AN3320	5.38	4.63	4.12	3.75
AN3410	9.32	8.11	7.38	6.71
AN3792	5.01	4.31	3.84	3.49
AN3793	8.41	7.32	6.66	6.06
AN3794	4.43	3.81	3.39	3.08
AN3796	7.39	6.43	5.85	5.33
AN3810	8.58	7.46	6.79	6.18
AN3812	8.03	6.99	6.36	5.79
AN3821	12.60	10.96	9.97	9.07
AN3822	16.80	14.78	13.45	12.38
AN3824	4.46	3.84	3.42	3.11
AN3830	14.40	12.53	11.40	10.37
AN3934K	6.96	6.05	5.51	5.01
AN3990	8.08	6.94	6.18	5.62
AN5010	6.38	5.48	4.88	4.44
AN5020	3.19	2.78	2.39	2.12
AN5033	7.14	6.14	5.47	4.97
AN5036	6.91	5.95	5.29	4.82
AN5070	5.01	4.36	3.75	3.34
AN5111	9.54	8.30	7.56	6.88
AN5122	7.27	6.25	5.56	5.06
AN5125	7.97	6.93	6.31	5.74
AN5132	5.75	4.95	4.40	4.01
AN5135	8.36	7.27	6.62	6.02
AN5136	7.13	6.20	5.64	5.14
AN5150	6.47	5.57	4.95	4.51
AN5151	7.50	6.45	5.74	5.22
AN5156	9.77	8.50	7.73	7.04
AN5215	1.83	1.61	1.40	1.20
AN5250	4.93	4.29	3.69	3.28
AN5256	4.11	3.58	3.08	2.74
AN5262	3.14	2.76	2.40	2.07
AN5265	3.14	2.76	2.40	2.07
AN5301	10.79	9.39	8.54	7.77
AN5310	7.20	6.26	5.70	5.19
AN5312	8.20	7.05	6.28	5.71
AN5316	11.55	10.05	9.14	8.32
AN5318	8.21	7.06	6.28	5.71
AN5320	4.42	3.80	3.38	3.08
AN5322	9.31	8.10	7.37	6.70
AN5352	8.96	7.80	7.10	6.46
AN5410	5.53	4.76	4.23	3.85
AN5411	6.66	5.72	5.09	4.64

*MCM is not able to supply this number.
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ORDER #	1-4	5-9	10-29	30-99
AN5416	6.78	5.89	5.36	4.88
AN5435	7.44	6.40	5.69	5.18
AN5436	3.55	3.09	2.65	2.36
AN5437	5.50	4.79	4.12	3.66
AN5510	6.46	5.56	4.95	4.50
AN5512	3.00	2.64	2.30	1.97
AN5515	4.41	3.83	3.30	2.93
AN5520	7.90	6.79	6.04	5.50
AN5521	4.32	3.76	3.23	2.88
AN5560	5.23	4.50	4.00	3.64
AN5700	3.25	2.83	2.43	2.16
AN5701	3.69	3.21	2.76	2.46
AN5703	3.45	3.00	2.58	2.30
AN5710	2.81	2.47	2.15	1.85
AN5722	2.85	2.50	2.18	1.87
AN5730	3.14	2.73	2.35	2.09
AN5750	2.90	2.52	2.17	1.93
AN5753	2.83	2.46	2.12	1.88
AN5755	5.36	4.61	4.10	3.73
AN5763	6.32	5.43	4.84	4.40
AN5835	5.47	4.70	4.19	3.81
AN5836	4.86	4.18	3.72	3.38
AN5900	3.85	3.35	2.88	2.56
AN6130	5.25	4.56	3.93	3.49
AN6135	2.97	2.62	2.28	1.96
AN6136	2.97	2.58	2.22	1.98
AN6209	8.09	7.03	6.40	5.82
AN6246	4.06	3.54	3.04	2.71
AN6248	5.31	4.57	4.07	3.70
AN6249	3.08	2.68	2.30	2.05
AN6250	3.14	2.76	2.40	2.07
AN6251	7.96	6.92	6.30	5.73
AN6270	5.53	4.75	4.23	3.85
AN6271	5.97	5.13	4.57	4.16
AN6291	6.38	5.49	4.88	4.44
AN6296	12.44	10.82	9.85	8.96
AN6300	6.18	5.32	4.73	4.30
AN6306	7.42	6.46	5.88	5.35
AN6307	4.89	4.25	3.66	3.26
AN6310	9.08	7.90	7.18	6.54
AN6320	6.33	5.45	4.85	4.41
AN6321	10.58	9.20	8.38	7.62
AN6326	4.79	4.12	3.67	3.34
AN6328	8.19	7.04	6.27	5.70
AN6332	8.42	7.32	6.66	6.06
AN6337	7.41	6.44	5.86	5.34
AN6340	14.85	12.92	11.76	10.70
AN6341	4.88	4.20	3.74	3.40
AN6342	4.09	3.56	3.06	2.73
AN6343	6.65	5.72	5.09	4.63
AN6344	9.17	7.98	7.26	6.60
AN6345	7.83	6.74	6.00	5.46
AN6346	7.24	6.23	5.54	5.04
AN6350	10.57	9.20	8.37	7.62
AN6354	4.44	3.87	3.33	2.96
AN6356	7.15	6.15	5.47	4.98
AN6357	9.47	8.24	7.50	6.83
AN6359	9.21	8.01	7.29	6.63
AN6360	6.80	5.85	5.20	4.74
AN6361	6.47	5.56	4.95	4.51
AN6362	8.28	7.12	6.34	5.77
AN6366	10.43	9.07	8.26	7.51
AN6387	9.09	7.91	7.20	6.55
AN6391	7.69	6.69	6.09	5.54
AN6392	3.93	3.42	2.94	2.62
AN6531	3.42	2.97	2.56	2.27
AN6540	3.46	3.01	2.59	2.30
AN6541	5.12	4.45	3.83	3.41
AN6551	1.50	1.32	1.15	0.99
AN6552	1.49	1.32	1.14	0.98
AN6553	1.54	1.35	1.18	1.01
AN6554	2.33	2.05	1.78	1.53
AN6555	2.07	1.82	1.58	1.36
AN6556	2.22	1.96	1.70	1.46
AN6557	1.96	1.73	1.50	1.29
AN6561	2.51	2.21	1.92	1.65
AN6562	1.89	1.66	1.45	1.24
AN6564	1.74	1.53	1.33	1.14
AN6610	2.58	2.27	1.98	1.70
AN6612	1.49	1.31	1.14	0.98



ORDER #	1-4	5-9	10-29	30-99
AN6662	4.65	4.00	3.56	3.24
AN6671	9.59	8.34	7.59	6.91
AN6676	9.58	8.34	7.59	6.90
AN6677	10.48	9.12	8.30	7.55
AN6680	25.83	22.73	20.68	19.03
AN6780	3.25	2.82	2.43	2.16
AN6821	8.35	7.18	6.39	5.82
AN6870	9.37	8.15	7.42	6.75
AN6873	3.72	3.24	2.78	2.48
AN6876	2.20	1.93	1.68	1.45
AN6878	4.72	4.11	3.53	3.14
AN6884	2.94	2.59	2.25	1.94
AN6888	2.86	2.49	2.14	1.90
AN6912	2.49	2.19	1.91	1.64
AN6913	2.58	2.27	1.98	1.70
AN6914	1.48	1.30	1.13	0.98
AN7000	7.16	6.23	5.67	5.16
AN7001	8.16	7.10	6.46	5.88
AN7060	3.27	2.85	2.45	2.18
AN7062	4.94	4.30	3.69	3.29
AN7072	5.70	4.91	4.37	3.97
AN7073	3.18	2.77	2.38	2.12
AN7110	2.15	1.89	1.64	1.41
AN7111	3.33	2.90	2.49	2.22
AN7112	2.17	1.91	1.66	1.43
AN7114	3.09	2.72	2.36	2.03
AN7115	2.95	2.60	2.26	1.95
AN7116	1.50	1.32	1.15	0.99
AN7120	2.97	2.58	2.22	1.98
AN7130	2.78	2.44	2.13	1.83
AN7131	4.35	3.78	3.25	2.89
AN7140	2.87	2.50	2.15	1.91
AN7143	5.17	4.45	3.96	3.60
AN7145	5.21	4.53	3.90	3.47
AN7146	4.85	4.17	3.71	3.38
AN7147	5.26	4.57	3.93	3.50
AN7148	4.47	3.89	3.34	2.97
AN7156	5.03	4.32	3.85	3.50
AN7158	5.03	4.32	3.85	3.50
AN7160	5.13	4.41	3.92	3.57
AN7161	5.71	4.91	4.37	3.98
AN7163	5.61	4.82	4.29	3.91
AN7166	6.25	5.37	4.78	4.35
AN7168	5.27	4.53	4.03	3.67
AN7169	6.21	5.34	4.75	4.32
AN7171	7.43	6.46	5.88	5.35
AN7172	5.67	4.88	4.34	3.95
AN7173	8.49	7.39	6.72	6.12
AN7177	8.15	7.01	6.24	5.68
AN7178	4.98	4.34	3.73	3.32
AN7205	1.48	1.30	1.13	0.98
AN7212	4.45	3.88	3.33	2.97
AN7213	1.18	1.04	0.90	0.78
AN7220	3.16	2.75	2.36	2.10
AN7222	2.98	2.59	2.23	1.98
AN7223	2.69	2.37	2.06	1.77
AN7224	3.06	2.69	2.34	2.02
AN7254	2.71	2.38	2.07	1.78
AN7256	4.31	3.71	3.30	3.00
AN7266	3.10	2.73	2.38	2.04
AN7273	4.37	3.80	3.27	2.91
AN7310	1.61	1.42	1.23	1.06
AN7311	1.64	1.45	1.26	1.08
AN7312	2.22	1.95	1.70	1.46
AN7320	2.01	1.77	1.54	1.32
AN7363	4.44	3.86	3.32	2.95
AN7410	2.45	2.16	1.88	1.62
AN7420	2.27	2.00	1.74	1.49
AN7470	3.19	2.78	2.39	2.12
AN7805	1.56	1.38	1.20	1.03
AN7808	1.24	1.09	0.95	0.82
AN7809	2.34	2.06	1.79	1.54
AN7812	1.66	1.46	1.27	1.09
AN7815	1.58	1.39	1.21	1.04
AN7820	2.34	2.06	1.79	1.54
AN8005	1.46	1.28	1.12	0.96
AN8275	7.44	6.40	5.69	5.18
AN8370	10.99	9.56	8.70	7.92
BA311	2.79	2.45	2.13	1.84
BA312	2.95	2.60	2.26	1.95

ORDER #	1-4	5-9	10-29	30-99
BA313	1.64	1.44	1.25	1.08
BA328	2.65	2.33	2.03	1.74
BA335	2.81	2.44	2.10	1.87
BA337	2.52	2.22	1.93	1.66
BA338	2.27	1.99	1.74	1.49
BA340	1.45	1.27	1.11	0.95
BA343	2.94	2.59	2.25	1.94
BA401*	2.69	2.37	2.06	1.77
BA402	1.39	1.22	1.06	0.91
BA403	2.09	1.84	1.60	1.38
BA511	3.24	2.82	2.42	2.16
BA514	3.00	2.64	2.29	1.97
BA515	2.92	2.54	2.19	1.94
BA516	3.97	3.45	2.97	2.64
BA521	4.95	4.31	3.70	3.30
BA526	2.55	2.24	1.95	1.68
BA527	1.94	1.71	1.49	1.28
BA532	2.78	2.44	2.13	1.83
BA536	3.98	3.46	2.98	2.65
BA546	3.10	2.69	2.33	2.06
BA547	4.48	3.90	3.36	2.99
BA612	1.45	1.28	1.11	0.95
BA614	3.49	3.03	2.61	2.32
BA618	2.91	2.53	2.18	1.94
BA658	5.91	5.08	4.52	4.11
BA695	2.89	2.52	2.16	1.93
BA715	2.45	2.16	1.88	1.62
BA718	1.10	0.99	0.87	0.76
BA843	2.95	2.57	2.21	1.97
BA858	5.40	4.70	4.04	3.60
BA862	4.28	3.68	3.28	2.98
BA1102F	5.47	4.70	4.18	3.81
BA1310	4.68	4.07	3.50	3.12
BA1320	2.49	2.20	1.91	1.64
BA1330	3.69	3.21	2.76	2.45
BA1332	1.66	1.46	1.27	1.09
BA1332L	1.66	1.46	1.27	1.09
BA1350	3.66	2.84	2.44	2.17
BA1355	2.56	2.25	1.96	1.68
BA3302	2.63	2.32	2.02	1.73
BA3306	2.20	1.94	1.69	1.45
BA3308	2.13	1.88	1.63	1.41
BA3402	2.85	2.51	2.18	1.88
BA3406	3.30	2.87	2.47	2.20
BA3412K	4.43	3.81	3.39	3.09
BA3412	5.25	4.57	3.93	3.50
BA3416	2.63	2.31	2.01	1.73
BA3506	3.19	2.78	2.39	2.12
BA3704	3.75	3.26	2.80	2.49
BA3706	2.60	2.29	1.99	1.71
BA3707	2.72	2.39	2.08	1.79
BA3812	2.33	2.05	1.78	1.53
BA3822	2.17	1.91	1.66	1.43
BA3824LS	1.95	1.71	1.49	1.28
BA4110	3.13	2.72	2.34	2.08
BA4220	3.78	3.29	2.83	2.52
BA4228L	3.15	2.77	2.41	2.07
BA4402	1.70	1.50	1.30	1.12
BA4558	1.21	1.09	0.96	0.83
BA5102	3.50	3.04	2.62	2.33
BA5112	4.14	3.60	3.10	2.76
BA5114LS	3.24	2.82	2.42	2.16
BA5115	4.56	3.92	3.49	3.18
BA5115F	3.53	3.07	2.64	2.35
BA5204	2.87	2.53	2.20	1.89
BA5206	4.05	3.53	3.03	2.70
BA5402	3.37	2.93	2.52	2.24
BA5406	4.16	3.62	3.11	2.77
BA5408	3.51	3.05	2.63	2.34
BA6107	6.80	5.85	5.20	4.74
BA6109	3.21	2.79	2.40	2.14
BA6122	2.96	2.61	2.27	1.95
BA6124	1.81	1.59	1.38	1.19
BA6146	4.02	3.50	3.01	2.68
BA6149	4.75	4.13	3.56	3.16
BA6161F	2.12	1.86	1.62	1.39
BA6208	3.00	2.64	2.30	1.97
BA6209	3.47	3.01	2.59	2.31

*MCM is not able to supply this number.
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ORDER #	1-4	5-9	10-29	30-99
BA6218	2.92	2.57	2.24	1.92
BA6219	4.95	4.26	3.79	3.45
BA6222	2.94	2.56	2.20	1.96
BA6229	2.77	2.41	2.07	1.85
BA6238	4.86	4.23	3.64	3.24
BA6239	3.29	2.86	2.46	2.19
BA6246	3.92	3.41	2.94	2.61
BA6247	3.36	2.92	2.51	2.23
BA6248	2.81	2.44	2.10	1.87
BA6251	3.31	2.88	2.47	2.20
BA6259	2.94	2.56	2.20	1.96
BA6267	2.52	2.22	1.93	1.66
BA6301	3.52	3.06	2.63	2.34
BA6302	3.52	3.06	2.63	2.34
BA6303	6.39	5.50	4.89	4.45
BA6304	2.92	2.57	2.24	1.92
BA6305	5.32	4.63	3.98	3.54
BA6320	3.05	2.66	2.28	2.03
BA6321	3.55	3.09	2.66	2.37
BA6334	2.92	2.54	2.19	1.94
BA6353	5.18	4.50	3.87	3.45
BA6410	5.48	4.77	4.10	3.65
BA6411	4.91	4.27	3.67	3.27
BA6431	6.89	5.92	5.27	4.80
BA6800	6.66	5.79	5.27	4.79
BA7252	2.77	2.41	2.07	1.85
BA7266	4.96	4.27	3.80	3.46
BA7751	3.43	2.98	2.57	2.28
BA7755	1.58	1.39	1.21	1.04
BA7767	3.46	3.01	2.59	2.30
BA8420	5.29	4.55	4.05	3.68
BA10324	1.20	1.05	0.92	0.79
BA12003	2.07	1.82	1.58	1.36
BD237	1.54	1.36	1.18	1.02
BD238	1.38	1.21	1.06	0.91
CA3126E	5.23	4.50	4.00	3.64
CX065	7.95	6.83	6.08	5.54
CX075	7.64	6.57	5.85	5.32
CX095	8.78	7.64	6.95	6.33
CX100	16.21	14.26	12.98	11.94
CX101	18.67	16.43	14.95	13.75
CX103	16.56	14.57	13.26	12.20
CX104A	17.15	15.09	13.73	12.63
CX134A	10.44	9.09	8.27	7.52
CX141	16.04	13.95	12.70	11.55
CX143	18.00	15.84	14.41	13.26
CX157	9.02	7.85	7.14	6.50
CX158	12.22	10.63	9.67	8.80
CX171	10.86	9.45	8.60	7.83
CX173	16.78	14.76	13.43	12.36
CX177	19.53	17.19	15.64	14.39
CX181	19.53	17.19	15.64	14.39
CX183	10.77	9.37	8.53	7.76
CX186	15.74	13.85	12.60	11.59
CX194B	39.90	36.50	36.50	36.50
CX199	15.34	13.35	12.15	11.05
CX522	28.25	24.86	22.62	20.81
CX530-507N	32.67	28.75	26.16	24.07
CX530-558N	32.67	28.75	26.16	24.07
CX557	15.93	13.86	12.61	11.48
CX761A	20.72	18.23	16.59	15.26
CX843A	7.69	6.69	6.08	5.54
CX896	15.34	13.35	12.15	11.05
CX7958	27.75	24.42	22.22	20.44
CX7977	28.77	25.32	23.04	21.20
CX7989B	23.12	20.34	18.51	17.03
CX10021B	28.03	24.67	22.45	20.65
CX10026	18.21	16.02	14.58	13.41
CX20014	12.38	10.77	9.80	8.92
CX20014A	15.02	13.22	12.03	11.07
CX20017	10.40	9.04	8.23	7.49
CX20061	3.58	3.11	2.67	2.38
CX20100	9.65	8.40	7.64	6.95
CX20106	7.76	6.75	6.14	5.59
CX20108	23.62	20.79	18.92	17.40
CX20109	6.43	5.53	4.92	4.48
CX20112	8.65	7.52	6.85	6.23
CX20129	31.66	27.86	25.36	23.33
CX20133	35.25	31.07	31.07	31.07
CX20152	14.97	13.03	11.86	10.70



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
CX20159	7.74	6.65	5.92	5.39
CX20187	13.93	12.12	11.03	10.04
CX20193	25.31	22.27	20.27	18.65
CX22011	19.97	17.58	15.99	14.72
CX23035	38.42	35.35	35.35	35.35
CX23040	15.39	13.39	12.18	11.09
CXA1082BQ	16.68	14.68	13.36	12.29
CXA1182S	15.42	13.57	12.35	11.36
CXA1291P	6.25	5.37	4.78	4.35
CXA1372Q	15.26	13.28	12.08	11.00
CXD1053	27.83	24.49	22.29	20.50
CXD1054	25.41	22.36	20.35	18.72
CXD1125Q	23.70	20.86	18.98	17.46
CXK5816M-12L	5.87	5.04	4.49	4.09
CXQ88535-119S	32.67	28.75	26.16	24.07
DM14*	5.52	4.97	4.47	4.02
DM20*	1.89	1.66	1.45	1.24
DM26*	5.96	5.36	4.83	4.34
DM30*	5.96	5.36	4.83	4.34
DM32	1.89	1.66	1.45	1.24
DM41*	1.89	1.70	1.53	1.38
DM54	3.47	3.01	2.59	2.31
DN850	5.74	4.93	4.39	4.00
DS446	0.09	0.08	0.07	0.06
HA1115	2.52	2.22	1.93	1.66
HA1124*	2.34	2.06	1.79	1.54
HA1128	3.16	2.75	2.37	2.11
HA1137	4.45	3.87	3.33	2.96
HA1141*	2.34	2.06	1.79	1.54
HA1144	5.21	4.48	3.98	3.63
HA1149	3.67	3.19	2.74	2.44
HA1150*	4.12	3.59	3.08	2.74
HA1151	2.34	2.06	1.79	1.54
HA1154*	2.34	2.06	1.79	1.54
HA1156	4.12	3.59	3.08	2.74
HA1166	5.03	4.33	3.85	3.51
HA1196	3.82	3.33	2.86	2.55
HA1197	3.33	2.90	2.49	2.22
HA1199	2.95	2.57	2.21	1.97
HA1202	2.58	2.27	1.97	1.70
HA1203	0.95	0.85	0.75	0.65
HA1211	1.26	1.11	0.96	0.83
HA1306W	6.06	5.21	4.64	4.22
HA1350	12.67	11.02	10.03	9.13
HA1361	3.17	2.76	2.37	2.11
HA1366WR	5.43	4.72	4.06	3.61
HA1367	4.29	3.73	3.21	2.86
HA1370	12.47	10.85	9.88	8.99
HA1372	6.54	5.63	5.01	4.56
HA1377	5.11	4.45	3.83	3.40
HA1384	7.59	6.60	6.01	5.47
HA1388	5.68	4.88	4.35	3.95
HA1389	4.36	3.75	3.34	3.04
HA1389R	4.29	3.69	3.28	2.99
HA1392	5.43	4.73	4.07	3.62
HA1393	9.97	8.68	7.90	7.18
HA1394	5.96	5.13	4.56	4.15
HA1397	8.17	7.03	6.25	5.69
HA1398	5.31	4.57	4.07	3.70
HA1399*	5.68	4.88	4.35	3.95
HA1406	2.12	1.87	1.63	1.40
HA1452	2.71	2.38	2.07	1.78
HA11211	4.59	3.95	3.51	3.20
HA11215	8.55	7.44	6.77	6.16
HA11219	2.93	2.57	2.24	1.93
HA11223	6.43	5.53	4.92	4.48
HA11225	4.89	4.25	3.66	3.25
HA11226	6.16	5.30	4.72	4.29
HA11227	2.14	1.88	1.64	1.41
HA11229	4.34	3.73	3.32	3.02
HA11235	4.71	4.10	3.52	3.14
HA11238	7.91	6.81	6.06	5.51
HA11244	6.22	5.35	4.76	4.33
HA11247	8.75	7.61	6.92	6.30
HA11251	3.21	2.80	2.41	2.14
HA11401	7.76	6.75	6.14	5.59
HA11412	8.30	7.22	6.57	5.98
HA11414	5.00	4.35	3.74	3.33
HA11423	5.00	4.35	3.74	3.33
HA11431	11.88	10.34	9.41	8.56

ORDER #	1-4	5-9	10-29	30-99
HA11436	8.92	7.76	7.06	6.43
HA11440	6.99	6.01	5.35	4.87
HA11446	10.92	9.50	8.64	7.86
HA11480	10.73	9.34	8.50	7.73
HA11701	6.22	5.35	4.76	4.33
HA11704	7.10	6.17	5.62	5.11
HA11705	8.75	7.61	6.92	6.30
HA11706	4.76	4.09	3.64	3.32
HA11710	7.10	6.17	5.62	5.11
HA11711	28.50	25.08	22.82	21.00
HA11713	7.07	6.08	5.41	4.92
HA11714	5.87	5.05	4.49	4.09
HA11715	7.66	6.66	6.06	5.52
HA11718	6.14	5.28	4.70	4.27
HA11724	11.60	10.09	9.18	8.35
HA11725	9.40	8.18	7.44	6.77
HA11738	10.23	8.90	8.10	7.37
HA11741	9.58	8.33	7.58	6.90
HA11744	11.21	9.75	8.87	8.07
HA11747ANT	15.73	13.84	12.59	11.59
HA11749	4.75	4.08	3.63	3.31
HA11752	6.23	5.36	4.77	4.34
HA11789	4.56	3.92	3.49	3.18
HA11793	9.41	8.18	7.45	6.78
HA11797	7.10	6.39	5.75	5.18
HA11839	6.27	5.39	4.80	4.37
HA11847	10.91	9.49	8.64	7.86
HA12002	3.04	2.67	2.32	2.00
HA12003	1.83	1.61	1.40	1.20
HA12005	5.43	4.67	4.16	3.78
HA12006	6.83	5.94	5.41	4.92
HA12010	4.92	4.28	3.68	3.27
HA12016	3.08	2.68	2.30	2.05
HA12017	3.05	2.65	2.28	2.03
HA12019	4.83	4.21	3.62	3.22
HA12032	9.55	8.31	7.56	6.88
HA12038	10.99	9.56	8.70	7.92
HA12045	7.76	6.75	6.14	5.59
HA12046	5.79	4.98	4.43	4.03
HA12058	7.23	6.21	5.53	5.03
HA12058MP	7.87	6.85	6.23	5.67
HA12058NT	7.94	6.91	6.29	5.72
HA12072	10.26	8.92	8.12	7.39
HA12074	19.50	17.16	15.62	14.37
HA12074NT	14.15	12.31	11.21	10.20
HA12088NT	16.50	14.52	13.21	12.16
HA12090NT	8.93	7.77	7.07	6.43
HA12411	3.70	3.22	2.77	2.46
HA12412	4.70	4.09	3.52	3.13
HA12413	2.66	2.35	2.04	1.75
HA13001	4.91	4.27	3.67	3.27
HA13002	5.64	4.85	4.32	3.93
HA13006	9.24	8.04	7.31	6.65
HA13007	7.72	6.64	5.91	5.38
HA13102	7.00	6.02	5.36	4.88
HA13108	5.79	4.98	4.43	4.03
HA13117	5.56	4.78	4.25	3.87
HA13118	8.50	7.31	6.51	5.92
HA13119	5.16	4.49	3.86	3.43
HA13402	7.44	6.40	5.69	5.18
HA13403	8.91	7.75	7.05	6.42
HA13412	7.61	6.54	5.82	5.30
HA13421	4.27	3.67	3.27	2.98
HA13430	7.57	6.51	5.80	5.27
HA13455	6.72	5.85	5.32	4.84
HA17234	1.45	1.27	1.11	0.95
HA17524	4.09	3.56	3.06	2.72
HA17555	1.20	1.05	0.92	0.79
HA17808	1.88	1.66	1.44	1.24
HA17904	2.28	2.00	1.74	1.50
IC7106CPL	16.04	13.95	12.70	11.55
ICP-F10	0.80	0.80	0.65	0.65
ICP-F15	0.80	0.80	0.65	0.65
ICP-F20	0.80	0.80	0.65	0.65
ICP-F25	0.80	0.80	0.65	0.65
ICP-F38	0.80	0.80	0.65	0.65
ICP-F50	0.80	0.80	0.65	0.65
ICP-F75	0.80	0.80	0.65	0.65

*MCM is not able to supply this number.
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ORDER #	1-4	5-9	10-29	30-99
ICP-N5	0.80	0.80	0.65	0.65
ICP-N10	0.80	0.80	0.65	0.65
ICP-N15	0.80	0.80	0.65	0.65
ICP-N20	0.80	0.80	0.65	0.65
ICP-N25	0.80	0.80	0.65	0.65
ICP-N38	0.80	0.80	0.65	0.65
ICP-N50	0.80	0.80	0.65	0.65
ICP-N75	0.80	0.80	0.65	0.65
KA2206	2.33	2.05	1.78	1.53
KA2210	4.46	3.84	3.42	3.11
LA1111	1.13	1.00	0.87	0.75
LA1130	4.40	3.83	3.29	2.93
LA1135	3.44	2.99	2.57	2.29
LA1136	2.84	2.47	2.12	1.89
LA1140	3.03	2.63	2.26	2.01
LA1150	1.67	1.47	1.28	1.10
LA1160	3.15	2.77	2.41	2.07
LA1170	3.87	3.36	2.89	2.57
LA1175	3.20	2.78	2.39	2.13
LA1180	2.52	2.22	1.93	1.66
LA1185	1.13	0.99	0.86	0.74
LA1186	1.06	0.93	0.81	0.70
LA1200*	2.76	2.40	2.07	1.84
LA1201	2.76	2.40	2.07	1.84
LA1205	2.80	2.47	2.15	1.85
LA1210	2.79	2.43	2.09	1.86
LA1222	0.95	0.85	0.75	0.65
LA1230	4.07	3.54	3.05	2.71
LA1231	2.99	2.60	2.24	1.99
LA1232	3.17	2.76	2.37	2.11
LA1235	3.83	3.34	2.87	2.55
LA1240	3.30	2.87	2.47	2.20
LA1245	4.12	3.58	3.08	2.74
LA1247	3.99	3.47	2.98	2.66
LA1260	2.92	2.57	2.24	1.92
LA1261	2.20	1.94	1.69	1.45
LA1265	4.63	4.03	3.47	3.09
LA1266	5.10	4.44	3.82	3.40
LA1267	3.48	3.02	2.60	2.31
LA1352	3.69	3.21	2.76	2.45
LA1353	3.93	3.42	2.94	2.61
LA1354	2.84	2.49	2.17	1.87
LA1357	8.91	7.75	7.05	6.42
LA1363	2.79	2.43	2.09	1.86
LA1364	5.10	4.39	3.90	3.55
LA1365	2.34	2.06	1.79	1.54
LA1367	7.92	6.81	6.06	5.51
LA1385	3.90	3.39	2.92	2.60
LA1388	5.36	4.61	4.10	3.73
LA1390	5.08	4.37	3.89	3.54
LA1461	6.38	5.48	4.88	4.44
LA1810	3.08	2.68	2.30	2.05
LA2000	2.27	2.00	1.74	1.49
LA2100	3.85	3.35	2.88	2.56
LA2101	4.86	4.23	3.63	3.23
LA2110	4.57	3.97	3.42	3.04
LA2300	4.07	3.54	3.05	2.71
LA2400	1.84	1.62	1.41	1.21
LA2800	5.99	5.15	4.58	4.17
LA2800N	6.48	5.57	4.96	4.51
LA3115	3.14	2.73	2.35	2.09
LA3120	1.51	1.33	1.16	1.00
LA3122	2.71	2.38	2.07	1.78
LA3130	1.45	1.28	1.11	0.95
LA3133	3.02	2.66	2.32	1.99
LA3150	1.45	1.28	1.11	0.95
LA3155	2.20	1.94	1.69	1.45
LA3160	1.37	1.21	1.05	0.90
LA3161	1.37	1.21	1.05	0.90
LA3170	3.03	2.63	2.26	2.01
LA3201	1.83	1.61	1.40	1.20
LA3210	1.15	1.01	0.88	0.75
LA3220	1.56	1.37	1.20	1.03
LA3246	3.03	2.67	2.32	2.00
LA3300	0.95	0.85	0.75	0.65
LA3301	0.95	0.85	0.75	0.65
LA3350	2.83	2.49	2.17	1.86
LA3361	1.54	1.36	1.18	1.02
LA3365	2.15	1.89	1.64	1.41
LA3370	2.76	2.40	2.07	1.84



ORDER #	1-4	5-9	10-29	30-99
LA3375	3.32	2.89	2.49	2.21
LA3376	3.37	2.93	2.52	2.24
LA3380	5.37	4.67	4.02	3.58
LA3390	3.75	3.26	2.81	2.50
LA3400	4.59	4.00	3.44	3.06
LA3401	4.04	3.52	3.02	2.69
LA3410	2.98	2.59	2.23	1.99
LA3430	3.81	3.32	2.85	2.54
LA3600	1.48	1.30	1.13	0.98
LA3607	2.54	2.24	1.95	1.67
LA4030	3.63	3.16	2.72	2.42
LA4051	5.46	4.75	4.08	3.63
LA4100	1.63	1.44	1.25	1.07
LA4101	1.93	1.70	1.48	1.27
LA4102	2.38	2.09	1.82	1.56
LA4108	6.21	5.34	4.75	4.32
LA4110	2.78	2.44	2.12	1.83
LA4112	3.45	3.00	2.58	2.30
LA4125	4.48	3.90	3.35	2.98
LA4126	5.41	4.70	4.05	3.60
LA4137	3.10	2.73	2.37	2.04
LA4138	2.84	2.49	2.17	1.87
LA4140	1.41	1.24	1.08	0.93
LA4145	1.91	1.68	1.46	1.26
LA4160	3.13	2.72	2.34	2.08
LA4162	3.74	3.25	2.80	2.49
LA4170	4.40	3.83	3.29	2.93
LA4175	2.56	2.26	1.96	1.69
LA4177	2.38	2.09	1.82	1.57
LA4180	5.20	4.53	3.89	3.46
LA4182	3.51	3.05	2.63	2.34
LA4183	3.73	3.25	2.79	2.49
LA4185	5.21	4.48	3.99	3.63
LA4190	3.77	3.28	2.82	2.51
LA4192	3.73	3.25	2.79	2.49
LA4195	4.97	4.33	3.72	3.31
LA4200	3.74	3.25	2.80	2.49
LA4201	4.89	4.20	3.74	3.40
LA4210	4.61	3.96	3.53	3.21
LA4220	2.95	2.56	2.21	1.96
LA4260	3.80	3.31	2.84	2.53
LA4261	4.02	3.50	3.01	2.68
LA4265	3.09	2.69	2.31	2.06
LA4270	4.31	3.71	3.30	3.01
LA4280	5.57	4.79	4.26	3.88
LA4282	4.51	3.92	3.37	3.00
LA4420	3.17	2.76	2.37	2.11
LA4422	2.98	2.59	2.23	1.98
LA4430	5.10	4.39	3.90	3.55
LA4440	5.22	4.54	3.91	3.48
LA4445	4.63	4.02	3.46	3.08
LA4446	4.03	3.51	3.02	2.68
LA4460	4.60	4.01	3.44	3.07
LA4461	4.75	4.13	3.55	3.16
LA4465	4.62	3.98	3.54	3.22
LA4466	5.22	4.55	3.91	3.48
LA4470	4.96	4.31	3.71	3.30
LA4471	4.97	4.28	3.81	3.46
LA4475	4.40	3.78	3.37	3.06
LA4476	5.17	4.50	3.87	3.44
LA4490	5.23	4.50	4.00	3.64
LA4495	5.32	4.58	4.07	3.71
LA4497	5.09	4.43	3.81	3.39
LA4500	4.66	4.06	3.49	3.11
LA4505	5.38	4.68	4.02	3.58
LA4507	5.65	4.86	4.33	3.94
LA4508	4.65	4.05	3.48	3.10
LA4520	3.27	2.85	2.45	2.18
LA4533	2.54	2.24	1.95	1.67
LA4535	2.83	2.49	2.17	1.87
LA4550	2.93	2.58	2.25	1.93
LA4555	3.04	2.64	2.27	2.02
LA4557	3.34	2.91	2.50	2.23
LA4558	3.26	2.84	2.44	2.17
LA4570	3.15	2.74	2.36	2.10
LA4700	6.98	6.07	5.53	5.03
LA5511	2.55	2.25	1.95	1.68
LA5512	1.44	1.26	1.10	0.95
LA5522	2.07	1.82	1.58	1.36
LA5524	1.99	1.75	1.52	1.31

ORDER #	1-4	5-9	10-29	30-99
LA5601	3.18	2.77	2.38	2.12
LA6324	1.26	1.11	0.97	0.83
LA6339	1.23	1.08	0.94	0.81
LA6358	1.39	1.23	1.07	0.92
LA6393	1.67	1.47	1.28	1.10
LA6458	1.23	1.09	0.95	0.81
LA6510	3.64	3.16	2.72	2.42
LA6520	3.35	2.91	2.50	2.23
LA7000	8.33	7.16	6.37	5.80
LA7000S	5.98	5.14	4.57	4.60
LA7003	10.73	9.33	8.49	7.73
LA7005	5.96	5.12	4.56	4.15
LA7007	6.08	5.23	4.65	4.23
LA7009	6.93	5.96	5.30	4.83
LA7011	4.70	4.09	3.51	3.13
LA7016	1.68	1.47	1.28	1.10
LA7017	4.85	4.22	3.63	3.23
LA7031	5.48	4.71	4.19	3.81
LA7032	16.47	14.33	13.04	11.86
LA7033	5.65	4.86	4.33	3.94
LA7034	7.75	6.74	6.13	5.58
LA7040	3.80	3.30	2.84	2.53
LA7042	4.95	4.31	3.70	3.30
LA7072	4.54	3.95	3.39	3.02
LA7090	3.94	3.43	2.95	2.62
LA7095	3.31	2.88	2.48	2.20
LA7096	4.37	3.80	3.27	2.91
LA7116	3.48	3.03	2.61	2.32
LA7210	3.05	2.68	2.33	2.01
LA7212	4.97	4.33	3.72	3.31
LA7222	2.25	1.98	1.72	1.48
LA7224	1.74	1.53	1.33	1.14
LA7225	2.97	2.61	2.27	1.95
LA7295	3.03	2.64	2.27	2.02
LA7300	3.11	2.74	2.38	2.05
LA7309	3.07	2.70	2.35	2.02
LA7322	5.34	4.64	3.99	3.55
LA7510	3.07	2.67	2.30	2.04
LA7521	5.35	4.65	4.00	3.56
LA7530	4.66	4.01	3.57	3.25
LA7545	3.91	3.40	2.93	2.60
LA7601	9.24	8.04	7.32	6.66
LA7620	6.91	6.01	5.47	4.98
LA7621	8.07	6.94	6.18	5.62
LA7625	7.90	6.87	6.25	5.69
LA7626	7.24	6.30	5.73	5.22
LA7629	7.00	6.02	5.36	4.88
LA7650	11.06	9.62	8.76	7.97
LA7652	10.56	9.19	8.36	7.61
LA7690	2.96	2.57	2.21	1.97
LA7751	8.45	7.35	6.69	6.09
LA7802	4.25	3.69	3.18	2.83
LA7806	3.73	3.25	2.79	2.49
LA7808	2.80	2.44	2.09	1.86
LA7811	4.88	4.20	3.73	3.40
LA7820	4.83	4.21	3.62	3.22
LA7821	4.70	4.09	3.51	3.13
LA7823	4.00	3.48	3.00	2.67
LA7830	3.11	2.71	2.33	2.07
LA7831	4.31	3.75	3.22	2.87
LA7835	3.03	2.63	2.26	2.01
LA7836	3.56	3.10	2.67	2.37
LA7838	3.06	2.66	2.29	2.03
LA7850	4.47	3.84	3.42	3.11
LA7900	2.50	2.20	1.91	1.65
LA7905	2.20	1.94	1.69	1.45
LA7910	1.72	1.51	1.32	1.13
LA7911	3.00	2.61	2.24	2.00
LA7912	1.82	1.60	1.39	1.20
LA7913	3.00	2.64	2.30	1.97
LA7915	3.65	3.18	2.73	2.43
LA7916	3.65	3.18	2.73	2.43
LA7920	1.96	1.72	1.50	1.29
LA7925	4.54	3.95	3.39	3.02
LA7930	8.78	7.64	6.95	6.32
LA7935	6.16	5.30	4.72	4.29
LA7940	4.45	3.87	3.33	2.96
LA7952	2.22	1.95	1.70	1.46

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
LA7953	5.32	4.58	4.07	3.71
LA8501	1.14	1.01	0.88	0.75
LA9100	6.03	5.18	4.61	4.20
LA9200	4.57	3.93	3.50	3.18
LB1211	1.86	1.64	1.43	1.23
LB1214	2.39	2.10	1.83	1.57
LB1233	2.63	2.32	2.02	1.73
LB1240	2.79	2.43	2.09	1.86
LB1249	7.70	6.62	5.89	5.36
LB1253	3.65	3.18	2.73	2.43
LB1256	3.65	3.18	2.73	2.43
LB1260	2.84	2.47	2.13	1.89
LB1267	1.57	1.38	1.20	1.03
LB1272	2.89	2.54	2.21	1.90
LB1273	2.74	2.41	2.10	1.80
LB1287	2.31	2.03	1.77	1.52
LB1288	2.90	2.55	2.22	1.91
LB1290	3.24	2.82	2.43	2.16
LB1291	2.46	2.16	1.88	1.62
LB1294	2.77	2.44	2.12	1.83
LB1331	4.40	3.83	3.29	2.93
LB1403	1.45	1.28	1.11	0.95
LB1405	2.27	2.00	1.74	1.49
LB1407	3.02	2.66	2.32	1.99
LB1409	3.70	3.22	2.77	2.46
LB1412	4.22	3.67	3.16	2.81
LB1415	2.29	2.01	1.75	1.51
LB1416	2.48	2.18	1.90	1.63
LB1417	4.90	4.26	3.66	3.26
LB1426	3.36	2.92	2.51	2.23
LB1433	1.40	1.23	1.07	0.92
LB1473	7.49	6.44	5.73	5.22
LB1475	6.09	5.24	4.66	4.24
LB1500	7.85	6.75	6.01	5.47
LB1551	3.28	2.85	2.45	2.18
LB1601	4.20	3.65	3.14	2.79
LB1615	5.98	5.15	4.58	4.17
LB1620	4.82	4.14	3.69	3.36
LB1622	4.87	4.24	3.64	3.24
LB1624	5.04	4.38	3.77	3.36
LB1630	2.89	2.51	2.16	1.92
LB1640	3.69	3.21	2.76	2.45
LB1641	2.15	1.89	1.64	1.41
LB1645	3.66	3.18	2.74	2.44
LB1646	5.30	4.61	3.97	3.53
LB1648	3.24	2.82	2.42	2.16
LB1649	4.03	3.51	3.02	2.68
LB1650	5.06	4.35	3.87	3.52
LB1710	2.65	2.33	2.03	1.74
LB3500	2.88	2.51	2.16	1.92
LB8015	3.79	3.30	2.84	2.52
LC3517	5.06	4.35	3.87	3.52
LC4077	1.02	0.90	0.78	0.67
LC4966	1.98	1.75	1.52	1.31
LC6523	6.53	5.46	4.86	4.42
LC7010	8.43	7.34	6.68	6.08
LC7131	5.14	4.47	3.85	3.42
LC7132	4.68	4.08	3.51	3.12
LC7217	5.34	4.59	4.09	3.72
LC7218	5.46	4.75	4.08	3.63
LC7220	9.79	8.52	7.75	7.05
LC7258	8.52	7.41	6.74	6.14
LC7266	8.29	7.13	6.34	5.77
LC7401	7.74	6.65	5.92	5.39
LC7520	4.96	4.32	3.71	3.31
LC7522	7.17	6.16	5.49	4.99
LC7560	7.53	6.55	5.96	5.42
LC7565	7.90	6.87	6.26	5.69
LC7582	4.97	4.28	3.80	3.46
LC7800	5.18	4.51	3.87	3.45
LC7815	4.82	4.14	3.69	3.35
LC7816	4.82	4.14	3.69	3.35
LC7818	8.20	7.05	6.28	5.71
LC7820	4.34	3.73	3.32	3.02
LC7822	4.73	4.11	3.54	3.15
LC7860	10.98	9.55	8.69	7.91
LC7863	11.68	10.16	9.24	8.41



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
LF351N	2.06	1.81	1.58	1.36
LF353N	3.15	2.77	2.41	2.07
LF356	3.63	3.16	2.72	2.42
LF356N	2.96	2.54	2.14	1.86
LM201	4.40	3.83	3.29	2.93
LM224N	2.83	2.49	2.17	1.87
LM301	1.83	1.61	1.40	1.18
LM307	1.89	1.66	1.45	1.24
LM308	3.30	2.87	2.47	2.20
LM311	1.28	1.13	0.98	0.82
LM317	2.46	2.16	1.88	1.62
LM318	3.47	3.01	2.59	2.31
LM324	1.45	1.28	1.11	0.96
LM337	3.11	2.68	2.25	1.96
LM339	1.22	1.09	0.96	0.84
LM340T-5*	USE ERS960			
LM340T-6*	USE ERS962			
LM340T-8*	USE ERS964			
LM340T-12*	USE ERS966			
LM340T-15*	USE ERS968			
LM340T-18*	USE ERS958			
LM340T-24*	USE ERS972			
LM348	2.46	2.16	1.88	1.62
LM351	2.39	2.11	1.83	1.58
LM353	2.39	2.11	1.83	1.58
LM358	1.48	1.30	1.13	0.97
LM377*	6.50	5.85	5.27	4.74
LM378	7.32	6.59	5.93	5.34
LM380	3.30	2.87	2.47	2.20
LM383*	2.72	2.40	2.08	1.79
LM384	5.21	4.48	3.98	3.63
LM386	3.06	2.63	2.21	1.92
LM387	5.40	4.64	4.13	3.76
LM388	4.13	3.59	3.09	2.75
LM389	2.64	2.32	2.02	1.74
LM392	2.20	1.94	1.69	1.45
LM555*	1.14	1.00	0.87	0.75
LM556*	1.80	1.59	1.38	1.19
LM566	4.13	3.59	3.09	2.75
LM567	2.14	1.88	1.63	1.37
LM703*	7.00	5.88	5.12	4.45
LM709	2.75	2.42	2.10	1.77
LM723*	1.95	1.70	1.46	1.30
LM723CH	3.06	2.63	2.21	1.92
LM733*	1.58	1.39	1.21	1.04
LM741	2.44	2.15	1.87	1.57
LM747CN	2.39	2.11	1.83	1.58
LM747HC	4.92	4.23	3.77	3.43
LM748	4.40	3.83	3.29	2.93
LM1011	4.05	3.53	3.03	2.70
LM1304*	5.52	4.97	4.47	3.62
LM1305*	2.20	1.94	1.69	1.45
LM1307*	4.72	4.25	3.82	3.44
LM1310	2.94	2.56	2.20	1.96
LM1458*	1.26	1.11	0.96	0.83
LM1488	1.39	1.22	1.06	0.91
LM1489*	1.39	1.22	1.06	0.91
LM1496*	2.56	2.30	2.07	1.87
LM2901	4.04	3.51	3.02	2.69
LM2903	3.30	2.87	2.47	2.20
LM3064*	5.82	5.24	4.71	4.24
LM3065*	2.34	2.06	1.79	1.54
LM3900	2.20	1.94	1.69	1.45
LM3909	5.50	4.79	4.12	3.66
LM3911	6.59	5.67	5.04	4.59
LM3915	6.00	5.04	4.38	3.81
LM4136	3.30	2.87	2.47	2.20
LM4558*	1.26	1.11	0.96	0.83
LM4559*	3.58	3.11	2.67	2.38
LM7806*	USE ERS962			
LM7808*	USE ERS964			
LM7818*	USE ERS958			
LM7824*	USE ERS972			
LM8361	6.95	5.98	5.32	4.84
M5109P	7.36	6.40	5.83	5.30
M5134P	5.05	4.34	3.86	3.52
M5152L	1.59	1.40	1.22	1.05
M5155L	4.44	3.87	3.33	2.96
M5169P	5.31	4.78	4.30	3.87
M5185P	7.22	6.28	5.71	5.20

ORDER #	1-4	5-9	10-29	30-99
M5186P	6.87	5.91	5.26	4.79
M5190P	9.50	8.27	7.52	6.85
M5193P	8.21	7.14	6.50	5.92
M5214L	3.03	2.63	2.26	2.01
M5218L	2.14	1.88	1.64	1.41
M5218P*	1.26	1.11	0.96	0.83
M5220L	2.35	2.06	1.80	1.54
M5223P	1.26	1.11	0.96	0.83
M5226P	2.33	2.05	1.78	1.53
M5227P	3.33	2.89	2.49	2.22
M5230L	1.75	1.54	1.34	1.15
M5231TL	1.98	1.75	1.52	1.31
M5236L	1.85	1.62	1.41	1.22
M5237L	1.48	1.30	1.13	0.97
M5238P	2.29	2.01	1.75	1.51
M5290P	4.68	4.07	3.50	3.11
M50115AP	5.72	4.92	4.38	3.98
M50790	6.83	5.87	5.23	4.76
M51102L	4.71	4.10	3.52	3.14
M51104L	5.73	4.93	4.38	3.99
M51164AL	2.63	2.31	2.01	1.73
M51202TL	2.17	1.91	1.66	1.43
M51232P	4.89	4.20	3.74	3.40
M51321P	4.96	4.32	3.71	3.31
M51346AP	7.41	6.44	5.86	5.34
M51346P	7.91	6.80	6.05	5.51
M51354AP	10.23	8.90	8.10	7.37
M51355P	9.27	8.07	7.34	6.68
M51356P	7.59	6.60	6.01	5.47
M51358P	3.16	2.75	2.37	2.11
M51363P	8.03	6.98	6.35	5.78
M51383ASP	10.43	9.07	8.26	7.51
M51451AP	9.26	8.05	7.33	6.67
M51454AP	7.80	6.71	5.97	5.43
M51501L	3.18	2.76	2.38	2.12
M51514AL	4.65	4.04	3.48	3.09
M51516L	4.98	4.28	3.81	3.47
M51517L	4.97	4.27	3.80	3.46
M51521AL	2.56	2.26	1.96	1.69
M51522L	1.98	1.75	1.52	1.31
M51543P	3.92	3.41	2.93	2.61
M51544AL	2.50	2.20	1.91	1.64
M51601	7.01	6.03	5.37	4.88
M51652P	10.69	9.30	8.47	7.70
M52686P	12.47	10.85	9.87	8.98
M53207P	1.49	1.31	1.14	0.98
M54514AP	2.19	1.93	1.68	1.44
M54516P	2.49	2.19	1.91	1.64
M54517P	2.25	1.98	1.72	1.48
M54531	2.79	2.46	2.14	1.84
M54532	3.12	2.75	2.39	2.06
M54543L	4.39	3.82	3.28	2.92
M54543LB	3.68	3.21	2.76	2.45
M54543SL	3.98	3.46	2.98	2.65
M54544	3.52	3.06	2.63	2.34
M54544L	4.06	3.54	3.04	2.71
M54545L	4.84	4.21	3.62	3.22
M54548L	5.56	4.78	4.25	3.87
M54548AL	5.56	4.78	4.25	3.87
M54549L	7.76	6.67	5.94	5.41
M54563P	4.44	3.86	3.32	2.96
M54644BL	4.58	3.98	3.43	3.05
M54645AL	4.78	4.11	3.66	3.33
M54647	5.42	4.72	4.06	3.61
M54647L	4.49	3.86	3.44	3.13
M54648AL	5.55	4.77	4.25	3.87
M54648ALB	5.46	4.69	4.18	3.80
M54649*	4.80	4.17	3.59	3.19
M54649L	4.80	4.17	3.59	3.19
M54886	5.55	4.77	4.25	3.87
M54922P	5.78	4.97	4.43	4.03
M54940P	9.08	7.90	7.18	6.54
M58485P	8.18	7.12	6.48	5.90
M58653P	6.89	5.92	5.27	4.80
M58658P	5.34	4.59	4.09	3.72
M58659P	6.31	5.43	4.83	4.40
MB3105*	2.38	2.09	1.82	1.56
MB3106	2.38	2.09	1.82	1.56

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
MB3614	5.50	4.79	4.12	3.66
MB3712	3.22	2.80	2.41	2.15
MB3713	3.30	2.87	2.47	2.20
MB3715	4.40	3.78	3.37	3.06
MB3722	4.71	4.05	3.61	3.28
MB3730	5.40	4.69	4.04	3.59
MB3731	5.27	4.59	3.95	3.51
MB3732	4.66	4.06	3.49	3.11
MB3733	5.36	4.61	4.10	3.73
MB3736	7.02	6.03	5.37	4.89
MB3756	4.33	3.73	3.32	3.02
MB3759	3.75	3.26	2.80	2.49
MB3763	3.60	3.13	2.69	2.40
MB8719	8.47	7.37	6.71	6.10
MB8734	7.29	6.34	5.77	5.25
MB84069	1.13	1.02	0.90	0.78
MC68B09E	16.97	14.59	12.69	11.42
MC661P	10.10	8.69	7.56	6.80
MC680P	10.88	9.36	8.14	7.33
MC1011	4.85	4.17	3.71	3.38
MC1304*	5.52	4.97	4.47	4.02
MC1305*	5.72	5.15	4.63	4.17
MC1310	3.11	2.73	2.38	2.04
MC1314	7.23	6.21	5.53	5.03
MC1315	7.23	6.21	5.53	5.03
MC1329*	5.50	4.79	4.12	3.66
MC1358*	2.34	2.06	1.79	1.54
MC1364*	5.82	5.24	4.71	4.24
MC1371*	4.95	4.25	3.79	3.44
MC1398*	4.65	4.00	3.56	3.24
MC1455	2.11	1.86	1.62	1.39
MC1458*	1.26	1.11	0.96	0.83
MC1468	9.08	7.90	7.18	6.54
MC1488	1.39	1.22	1.07	0.92
MC1489	1.39	1.22	1.07	0.92
MC1496	2.20	1.94	1.69	1.45
MC1723*	1.58	1.39	1.21	1.04
MC1741*	2.44	2.15	1.87	1.57
MC1747CP2	1.53	1.34	1.17	0.98
MC3357	2.92	2.54	2.18	1.94
MC3359	4.76	4.09	3.64	3.32
MC3361	3.25	2.82	2.43	2.16
MC3470AP	9.06	7.88	7.17	6.52
MC4558*	1.26	1.11	0.96	0.83
MC13001	15.68	13.64	12.41	11.29
MC14069	1.16	1.02	0.89	0.75
MC14510	2.08	1.83	1.59	1.37
MC34061	3.14	2.73	2.35	2.09
MJ15015	4.59	3.95	3.51	3.20
MJ15016	4.59	3.95	3.51	3.20
MJ15022	10.41	8.96	7.79	7.01
MJ15023	11.85	10.31	9.38	8.54
MJ15024	9.87	8.49	7.38	6.64
MN1205	4.59	3.95	3.51	3.20
MN1219	14.79	12.86	11.71	10.65
MN1228	7.86	6.76	6.01	5.47
MN1280	1.46	1.28	1.12	0.96
MN1400	25.35	22.31	20.30	18.68
MN14013	1.26	1.11	0.96	0.83
MN6049	7.92	6.89	6.27	5.71
MN6163	10.02	8.72	7.93	7.22
MN6178	11.75	10.22	9.30	8.46
MN8303	5.23	4.55	3.91	3.48
MOC3010	3.91	3.40	2.92	2.60
NE545*	4.59	3.95	3.52	2.88
NE555	1.14	1.00	0.87	0.75
NE556	1.80	1.59	1.38	1.19
NE564N	2.14	1.88	1.63	1.37
NE566	4.13	3.59	3.09	2.75
NE567N	4.13	3.59	3.09	2.75
NE646	4.59	3.95	3.52	2.88
NJM2043S	1.65	1.45	1.26	1.09
NJM2902N	1.02	0.89	0.78	0.67
NJM3415M	3.00	2.64	2.30	1



ORDER #	1-4	5-9	10-29	30-99
PA3005	5.48	4.72	4.20	3.82
PLL01A	6.34	5.45	4.85	4.42
PLL02A	9.40	8.18	7.44	6.77
RC4136	2.86	2.49	2.14	1.86
RC4558	1.26	1.11	0.96	0.83
RC4559*	3.58	3.11	2.67	2.38
RH-1X-0137 CEZZ*	8.50	7.65	6.89	6.20
RH-1X-0212 CEZZ*	9.95	8.66	7.88	7.17
RH-1X-0224 CEZZ*	7.15	6.22	5.66	5.15
RH-1X-0238 CEZZ	5.50	4.79	4.12	3.66
RH-1X-0355 CEZZ	29.46	25.93	23.59	21.71
RH-1X-0600 CEN1	43.36	39.48	39.48	39.48
RH-1X-1190 CEZZ*	11.42	9.93	9.04	8.23
S-40W	34.85	30.67	27.91	25.67
S-200W*	69.95	61.56	56.02	51.53
S-200WA	69.95	61.56	56.02	51.53
SG264A	18.32	16.12	14.67	13.50
SG613	36.00	31.68	28.83	26.52
SI-1010G	28.31	24.91	22.67	20.85
SI-3052P	5.90	5.08	4.52	4.11
SI-3122P	5.75	4.95	4.40	4.01
SI-3122V	6.10	5.24	4.67	4.25
SI-3152P	6.10	5.24	4.67	4.25
SI-3242P	6.10	5.24	4.67	4.25
SI-7115B	24.60	21.65	19.70	18.13
SLA4031	9.74	8.47	7.71	7.01
SN7610*	4.72	4.25	3.82	3.44
SN76115	3.18	2.76	2.38	2.12
SN76243*	4.95	4.25	3.79	3.44
SN76246*	5.50	4.79	4.12	3.66
SN76267*	6.64	5.98	5.38	4.84
SN76564*	5.82	5.24	4.71	4.24
SN76651*	5.40	4.86	4.37	3.94
SN76665*	2.34	2.06	1.79	1.54
SN76670	0.95	0.85	0.75	0.65
SP600	6.95	6.05	5.20	4.63
SS1001*	23.94	21.07	19.17	17.64
STA301	5.17	4.50	3.87	3.44
STA310A	4.97	4.28	3.80	3.46
STA341M	4.32	3.71	3.31	3.01
STA401A	4.85	4.17	3.71	3.38
STA435A	4.95	4.25	3.79	3.45
STA451C	4.89	4.20	3.74	3.40
STD580	9.67	8.41	7.65	6.97
STK0025	9.12	7.93	7.22	6.57
STK0029	8.51	7.41	6.74	6.13
STK0029N	8.51	7.41	6.74	6.13
STK0030*	12.55	10.92	9.93	9.04
STK0039*	13.32	11.59	10.54	9.59
STK0039N	8.50	7.31	6.50	5.92
STK0040	12.55	10.92	9.93	9.04
STK0040II	11.81	10.28	9.35	8.51
STK0049	13.32	11.59	10.54	9.59
STK0050	14.50	12.62	11.48	10.45
STK0050II	14.50	12.62	11.48	10.45
STK0055*	15.81	13.92	12.66	11.65
STK0060	19.86	17.48	15.90	14.63
STK0060II	15.88	13.97	12.71	11.70
STK0065*	17.11	15.06	13.70	12.61
STK0075*	21.30	18.74	17.06	15.69
STK0080II	19.47	17.14	15.59	14.35
STK0080RD*	19.95	17.56	15.98	14.70
STK0080SQ	21.30	18.74	17.06	15.69
STK018*	19.85	17.47	15.90	14.63
STK040*	19.18	16.87	15.36	14.13
STK041*	19.18	16.87	15.36	14.13
STK043	21.24	18.69	17.01	15.64
STK075*	15.82	13.77	12.53	11.40
STK078	15.82	13.77	12.53	11.40
STK080	16.02	14.10	12.83	11.80
STK080G*	19.55	17.21	15.66	14.41
STK082	19.85	17.47	15.90	14.63
STK083*	23.52	20.69	18.83	17.33
STK083G*	26.57	23.38	21.27	19.57
STK084	23.52	20.69	18.83	17.33
STK084G	26.57	23.38	21.27	19.57
STK086	23.94	21.07	19.17	17.64
STK086G	27.00	23.76	21.62	19.89
STK0100	22.34	19.66	17.89	16.46

ORDER #	1-4	5-9	10-29	30-99
STK0105	19.95	17.56	15.98	14.70
STK0177*	15.82	13.77	12.53	11.40
STK0182*	19.85	17.47	15.90	14.63
STK430III	10.49	9.12	8.30	7.56
STK431	7.36	6.40	5.83	5.30
STK433	9.66	8.40	7.65	6.96
STK435	10.83	9.42	8.57	7.80
STK436	11.24	9.78	8.90	8.10
STK437	13.11	11.41	10.38	9.45
STK439	13.69	11.91	10.83	9.86
STK441	16.16	14.22	12.94	11.90
STK443	21.53	18.95	17.24	15.86
STK457	16.20	14.09	12.83	11.67
STK459	15.15	13.18	11.99	10.91
STK460	19.95	17.56	15.98	14.70
STK461	17.72	15.59	14.19	13.06
STK463	17.90	15.75	14.34	13.19
STK465	18.57	16.34	14.87	13.68
STK563	12.88	11.20	10.19	9.28
STK583	10.18	8.86	8.06	7.34
STK1039*	15.42	13.41	12.21	11.11
STK1040*	15.44	13.44	12.23	11.13
STK1049	15.42	13.41	12.21	11.11
STK1050	15.44	13.44	12.23	11.13
STK1050II	15.12	13.31	12.11	11.14
STK1060	15.66	13.78	12.54	11.54
STK1060II	18.17	15.99	14.55	13.39
STK1070	14.16	12.32	11.21	10.20
STK1070II	19.00	16.72	15.21	14.00
STK2025*	15.96	13.89	12.64	11.50
STK2028	13.93	12.12	11.03	10.03
STK2028II	15.34	13.50	12.28	11.30
STK2029	15.96	13.89	12.64	11.50
STK2030	16.62	14.63	13.31	12.25
STK2035*	15.96	13.89	12.64	11.50
STK2038	19.08	16.79	15.28	14.06
STK2038II	18.23	16.04	14.59	13.43
STK2048II	20.66	18.18	16.54	15.22
STK2125	17.85	15.71	14.29	13.15
STK2129	23.50	20.68	18.82	17.32
STK2230	13.84	12.04	10.96	9.97
STK2240	15.84	13.94	12.68	11.67
STK2250	17.26	15.19	13.82	12.72
STK2260	31.98	28.14	25.61	23.56
STK2408II	16.04	13.96	12.70	11.56
STK3041	8.50	7.40	6.73	6.12
STK3042	9.50	8.27	7.52	6.84
STK3042III	9.22	8.02	7.30	6.65
STK3062	11.04	9.60	8.74	7.95
STK3062III	10.23	8.90	8.10	7.37
STK3082	13.10	11.40	10.36	9.43
STK3082II*	12.95	11.40	10.37	9.54
STK3082III	10.61	9.23	8.40	7.65
STK3102I	11.38	9.90	9.01	8.20
STK3102II	12.72	11.07	10.07	9.16
STK3106	21.54	18.96	17.25	15.87
STK3152III	16.42	14.45	13.15	12.09
STK3156	19.22	16.92	15.39	14.16
STK4017*	9.43	8.20	7.47	6.79
STK4019*	9.43	8.20	7.47	6.79
STK4021	9.43	8.20	7.47	6.79
STK4024II	6.89	5.99	5.46	4.96
STK4026	9.36	8.15	7.41	6.74
STK4026II	9.24	8.04	7.32	6.66
STK4030II	8.61	7.49	6.81	6.20
STK4030V	11.99	10.43	9.49	8.64
STK4032*	13.20	11.48	10.45	9.51
STK4032X	13.20	11.48	10.45	9.51
STK4036X	15.29	13.30	12.10	11.01
STK4038II	14.24	12.39	11.27	10.26
STK4038X	16.42	14.28	13.00	11.83
STK4038XI	16.86	14.84	13.50	12.42
STK4040II	11.13	9.68	8.81	8.02
STK4040V	18.55	16.33	14.86	13.67
STK4040X	16.20	14.26	12.97	11.94
STK4040XI	19.06	16.77	15.26	14.04
STK4042II	16.45	14.31	13.03	11.85
STK4042V	16.77	14.76	13.43	12.36

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ORDER #	1-4	5-9	10-29	30-99
STK4042XI	19.98	17.59	16.00	14.72
STK4044II	15.40	13.55	12.33	11.35
STK4044V	23.67	20.83	18.95	17.44
STK4044IX	16.57	14.58	13.27	12.21
STK4046V	20.42	17.97	16.35	15.04
STK4048II	19.96	17.56	15.98	14.70
STK4048V	17.52	15.42	14.03	12.91
STK4060	10.81	9.41	8.56	7.79
STK4101II	9.74	8.47	7.71	7.01
STK4112II	9.12	7.93	7.22	6.57
STK4121II	11.12	9.67	8.80	8.01
STK4121V	13.58	11.82	10.75	9.79
STK4122II	9.43	8.21	7.47	6.80
STK4131II	12.60	10.96	9.97	9.08
STK4131V	13.42	11.68	10.63	9.67
STK4132II	19.24	16.93	15.40	14.17
STK4141II	17.95	15.62	14.21	12.93
STK4142II	12.96	11.28	10.26	9.34
STK4151II	15.52	13.66	12.43	11.44
STK4151V	16.42	14.29	13.00	11.83
STK4152II	15.92	13.85	12.60	11.47
STK4161	23.48	20.66	18.80	17.30
STK4161II	16.88	14.86	13.52	12.44
STK4161V	27.48	24.18	22.01	20.25
STK4162II	16.46	14.48	13.18	12.13
STK4171II	18.50	16.28	14.81	13.63
STK4172II	16.43	14.29	13.01	11.83
STK4181V	19.46	17.12	15.58	14.33
STK4182II	17.93	15.78	14.36	13.21
STK4191	29.40	25.87	23.54	21.66
STK4191II	24.50	21.56	19.62	18.05
STK4191V	21.50	19.01	17.30	15.91
STK4192II	19.95	17.56	15.98	14.70
STK4201II	17.06	15.02	13.66	12.57
STK4211II	22.95	20.20	18.38	16.91
STK4211V	25.45	22.40	20.38	18.75
STK4221II	24.08	21.19	19.28	17.74
STK4231II	30.97	27.25	24.80	22.82
STK4241II	26.19	23.05	20.97	19.30
STK4272	14.88	12.95	11.78	10.72
STK4273	12.95	11.27	10.25	9.33
STK4275	7.16	6.23	5.67	5.16
STK4301	11.97	10.41	9.48	8.62
STK4311	12.42	10.81	9.83	8.95
STK4332	8.17	7.03	6.26	5.69
STK4352	8.29	7.13	6.35	5.78
STK4362	8.07	7.02	6.39	5.82
STK4372	9.36	8.14	7.41	6.74
STK4392	9.34	8.12	7.39	6.73
STK4544V	17.97	15.81	14.39	13.24
STK4773*	19.20	16.90	15.38	14.15
STK4793*	19.20	16.90	15.38	14.15
STK4803	19.20	16.90	15.38	14.15
STK4813*	22.50	19.80	18.02	16.58
STK4833	16.33	14.37	13.07	12.03
STK4843	22.50	19.80	18.02	16.58
STK4853	20.48	18.02	16.40	15.09
STK4863	19.95	17.55	15.97	14.70
STK4873	21.34	18.78	17.09	15.72
STK4893	22.97	20.21	18.39	16.92
STK4913	22.65	19.93	18.14	16.69
STK5314	10.29	8.95	8.15	7.42
STK5322	8.76	7.62	6.93	6.31
STK5323	13.56	11.80	10.74	9.77
STK5324	8.65	7.53	6.85	6.23
STK5327	8.76	7.63	6.94	6.31
STK5331	4.70	4.08	3.51	3.13
STK5332	8.16	7.10	6.46	5.88
STK5333	4.89	4.20	3.74	3.40
STK5342	4.74	4.08	3.63	3.30
STK5346	6.73	5.79	5.15	4.69
STK5364	4.43	3.81	3.39	3.08
STK5371	7.82	6.73	5.99	5.45
STK5372	5.89	5.07	4.51	4.10
STK5421	9.31	8.10	7.37	6.71
STK5422	13.56	11.79	10.73	9.77
STK5431	11.11	9.66	8.79	8.00
STK5434	9.74	8.48	7.71	7.02
STK5436	10.96	9.53	8.67	7.89
STK5451	8.51	7.41	6.74	6.16



ORDER #	1-4	5-9	10-29	30-99
STK5461	8.91	7.75	7.05	6.42
STK5462	6.93	6.03	5.49	4.99
STK5464	7.29	6.27	5.58	5.07
STK5466	8.03	6.91	6.15	5.59
STK5471	9.50	8.27	7.52	6.84
STK5472	5.40	4.64	4.13	3.76
STK5474	13.42	11.68	10.63	9.67
STK5478	5.62	4.83	4.30	3.91
STK5479	7.59	6.52	5.81	5.28
STK5482	8.41	7.24	6.44	5.86
STK6722	18.13	15.95	14.52	13.35
STK6822	16.47	14.49	13.19	12.13
STK6922	9.51	8.27	7.53	6.85
STK6932	12.77	11.11	10.11	9.20
STK6942	6.20	5.33	4.75	4.32
STK6962	4.78	4.11	3.66	3.33
STK6972	6.76	5.82	5.18	4.71
STK6982	16.50	14.52	13.21	12.16
STK7102	15.99	14.07	12.80	11.78
STK7216	9.60	8.35	7.60	6.92
STK7217	11.15	9.70	8.82	8.03
STK7231	8.94	7.78	7.08	6.44
STK7251	7.01	6.03	5.37	4.88
STK7308	9.78	8.51	7.75	7.05
STK7309	9.65	8.39	7.64	6.95
STK7310	12.95	11.27	10.25	9.33
STK7348	6.78	5.90	5.37	4.88
STK7404	8.77	7.63	6.95	6.32
STK7406	11.13	9.68	8.81	8.02
STK7408	14.67	12.76	11.61	10.57
STK7554	11.22	9.76	8.88	8.08
STK7563	15.96	14.04	12.78	11.76
STK7565	13.31	11.58	10.54	9.59
STK7573	8.43	7.33	6.67	6.07
STK8050	24.75	21.78	19.82	18.23
STK8250*	24.18	21.28	19.36	17.81
STK8260*	24.18	21.28	19.36	17.81
STK8270	24.18	21.28	19.36	17.81
STK8270II*	19.74	17.37	15.81	14.55
STK8280	17.06	15.01	13.66	12.57
STK8770II	21.87	19.25	17.51	16.11
STR212	9.22	8.02	7.30	6.64
STR370	8.65	7.53	6.85	6.23
STR371	7.41	6.37	5.67	5.16
STR371A	9.22	8.02	7.30	6.64
STR380	8.95	7.79	7.09	6.44
STR381	8.39	7.30	6.64	6.04
STR382	9.57	8.33	7.58	6.89
STR383	7.44	6.47	5.89	5.36
STR384	9.57	8.33	7.58	6.89
STR385	7.64	6.65	6.05	5.50
STR416	16.17	14.07	12.80	11.65
STR440	16.17	14.07	12.80	11.65
STR441	16.17	14.07	12.80	11.65
STR450	14.19	12.35	11.23	10.22
STR451	14.85	12.92	11.76	10.70
STR454	15.35	13.35	12.15	11.06
STR455	12.96	11.28	10.26	9.34
STR456	12.96	11.28	10.26	9.34
STR457	15.35	13.35	12.15	11.06
STR458	15.35	13.35	12.15	11.06
STR460	14.98	13.03	11.86	10.79
STR470	10.97	9.54	8.68	7.90
STR716	16.16	14.22	12.94	11.90
STR729	12.50	10.87	9.89	9.00
STR1096	8.91	7.75	7.05	6.42
STR1195	9.74	8.47	7.71	7.01
STR1229	10.09	8.78	7.99	7.27
STR2005	17.46	15.36	13.98	12.86
STR2012	8.28	7.20	6.55	5.96
STR2013	9.15	7.96	7.24	6.59
STR3015	7.10	6.17	5.62	5.11
STR3035	7.44	6.40	5.69	5.18
STR3105	8.45	7.35	6.69	6.09
STR3110	6.99	6.08	5.53	5.03
STR3113	8.29	7.13	6.34	5.77
STR3115	7.74	6.65	5.92	5.39
STR3118	8.18	7.12	6.48	5.90
STR3120	8.34	7.17	6.38	5.81
STR3123	7.65	6.58	5.86	5.33

ORDER #	1-4	5-9	10-29	30-99
STR3125	7.20	6.19	5.51	5.01
STR3127	8.02	6.90	6.14	5.59
STR3130	8.02	6.90	6.14	5.59
STR3135	7.91	6.80	6.05	5.51
STR3212	8.50	7.31	6.51	5.92
STR3214	7.26	6.32	5.75	5.23
STR3215	8.43	7.34	6.68	6.07
STR3216	8.95	7.79	7.09	6.45
STR3220	7.32	6.30	5.60	5.10
STR3225	9.03	7.86	7.15	6.51
STR3230	7.41	6.44	5.86	5.34
STR3234	6.76	5.89	5.36	4.87
STR3335	9.17	7.98	7.26	6.61
STR4090	15.18	13.21	12.02	10.94
STR4141	13.86	12.06	10.97	9.99
STR4142	14.03	12.20	11.10	10.10
STR5015	13.86	12.06	10.97	9.99
STR5100	13.43	11.68	10.63	9.68
STR5314	13.86	12.06	10.97	9.99
STR5395	13.86	12.06	10.97	9.99
STR5412	13.37	11.63	10.58	9.63
STR8124	13.04	11.34	10.32	9.39
STR9012	9.86	8.58	7.80	7.10
STR10006	11.55	10.05	9.14	8.32
STR11006	13.96	12.15	11.05	10.06
STR12006	12.38	10.77	9.80	8.92
STR13006	12.05	10.48	9.54	8.68
STR15006	12.05	10.48	9.54	8.68
STR20005	13.36	11.63	10.58	9.63
STR30110	8.46	7.27	6.47	5.89
STR30112	15.44	13.44	12.23	11.13
STR30113	8.46	7.27	6.47	5.89
STR30115	9.41	8.18	7.45	6.78
STR30118	7.04	6.13	5.58	5.07
STR30120	7.19	6.18	5.50	5.01
STR30123	7.69	6.62	5.89	5.36
STR30125	7.82	6.73	5.99	5.45
STR30130	7.74	6.65	5.92	5.39
STR30134	8.20	7.05	6.28	5.71
STR30135	8.07	7.02	6.39	5.81
STR40115	13.53	11.77	10.71	9.75
STR41090	13.53	11.77	10.71	9.75
STR44115	13.53	11.77	10.71	9.75
STR45111	13.53	11.77	10.71	9.75
STR50020	13.53	11.77	10.71	9.75
STR50041	12.97	11.28	10.27	9.34
STR50100	14.03	12.20	11.10	10.10
STR50103	11.03	9.60	8.74	7.95
STR51041	14.03	12.20	11.10	10.10
STR52041	17.94	15.79	14.37	13.22
STR53041	14.26	12.40	11.29	10.27
STR53043	14.69	12.78	11.63	10.58
STR54041	12.95	11.27	10.25	9.33
STR58041	14.85	12.92	11.76	10.70
STR60001	15.30	13.46	12.25	11.27
TA7054	0.95	0.85	0.75	0.65
TA7060	2.69	2.37	2.06	1.77
TA7061	0.95	0.85	0.75	0.65
TA7063	0.95	0.85	0.75	0.65
TA7066	2.99	2.60	2.23	1.99
TA7069	4.02	3.49	3.00	2.67
TA7070*	5.10	4.39	3.90	3.55
TA7071*	2.34	2.06	1.79	1.54
TA7089	6.38	5.48	4.88	4.44
TA7103*	8.82	7.93	7.14	6.43
TA7120	1.65	1.46	1.27	1.09
TA7122	1.13	1.00	0.87	0.75
TA7130	4.13	3.59	3.09	2.75
TA7136	2.80	2.47	2.15	1.85
TA7137	2.00	1.76	1.53	1.31
TA7139	1.76	1.55	1.35	1.16
TA7140	5.39	4.69	4.03	3.59
TA7150	6.38	5.48	4.88	4.44
TA7154	0.95	0.85	0.75	0.65
TA7156	6.76	5.81	5.17	4.71
TA7157	3.39	2.95	2.54	2.26
TA7170	4.37	3.80	3.27	2.91
TA7176	3.34	2.90	2.50	2.22

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
TA7177	8.45	7.35	6.69	6.09
TA7203	4.90	4.26	3.66	3.26
TA7205	3.35	2.91	2.50	2.23
TA7207	4.50	3.91	3.37	3.00
TA7208	3.93	3.42	2.94	2.62
TA7210	9.37	8.15	7.42	6.75
TA7211	8.08	6.94	6.18	5.62
TA7214	6.99	6.01	5.35	4.87
TA7215*	6.89	5.92	5.27	4.80
TA7217	3.87	3.36	2.89	2.58
TA7220	6.59	5.67	5.04	4.59
TA7222	3.91	3.40	2.93	2.60
TA7223	2.46	2.16	1.88	1.62
TA7224	5.10	4.39	3.90	3.55
TA7225	6.89	5.92	5.27	4.80
TA7226	3.53	3.07	2.64	2.35
TA7227	5.20	4.47	3.98	3.62
TA7229	7.62	6.55	5.83	5.30
TA7230	4.22	3.67	3.16	2.81
TA7232	4.28	3.72	3.20	2.85
TA7233	4.61	4.01	3.45	3.07
TA7237	6.97	5.99	5.33	4.85
TA7238	6.94	5.96	5.31	4.83
TA7240	5.42	4.71	4.05	3.61
TA7241	5.37	4.67	4.02	3.57
TA7242	5.31	4.57	4.07	3.70
TA7245	4.33	3.72	3.31	3.01
TA7245F	4.89	4.20	3.74	3.40
TA7248	8.48	7.37	6.71	6.11
TA7250	7.52	6.47	5.76	5.24
TA7251	8.29	7.13	6.35	5.78
TA7256	5.02	4.37	3.75	3.34
TA7257	5.97	5.14	4.57	4.16
TA7259	4.80	4.13	3.68	3.35
TA7260	9.37	8.15	7.42	6.75
TA7261	8.27	7.12	6.33	5.76
TA7262	6.39	5.49	4.89	4.45
TA7263	5.42	4.71	4.05	3.61
TA7264	7.25	6.24	5.55	5.05
TA7267	4.80	4.18	3.59	3.20
TA7268	8.48	7.30	6.49	5.91
TA7269	4.35	3.78	3.26	2.90
TA7270	4.88	4.25	3.65	3.25
TA7271	4.75	4.13	3.56	3.16
TA7272	4.48	3.85	3.43	3.12
TA7273	7.98	6.86	6.11	5.56
TA7274	4.69	4.03	3.59	3.27
TA7279	6.90	5.93	5.28	4.81
TA7280	5.49	4.78	4.11	3.66
TA7281	5.95	5.12	4.55	4.14
TA7282	4.94	4.25	3.78	3.44
TA7283	5.09	4.43	3.81	3.39
TA7288	4.69	4.08	3.51	3.12
TA7291	4.34	3.78	3.25	2.89
TA7292	6.10	5.24	4.67	4.25
TA7294	7.86	6.84	6.22	5.66
TA7299	4.87	4.18	3.72	3.39
TA7302	2.88	2.51	2.16	1.92
TA7303	3.01	2.64	2.30	1.98
TA7307	1.76	1.55	1.35	1.16
TA7310	2.56	2.25	1.96	1.68
TA7312	3.68	3.20	2.75	2.45
TA7313	3.14	2.73	2.35	2.09
TA7315	4.95	4.31	3.70	3.30
TA7317	2.51	2.21	1.92	1.65
TA7318	3.80	3.30	2.84	2.53
TA7320	3.08	2.68	2.30	2.05
TA7321	0.95	0.85	0.75	0.65
TA7322	2.64	2.32	2.02	1.74
TA7323	3.20	2.79	2.40	2.13
TA7324	2.70	2.37	2.06	1.77
TA7325	2.24	1.98	1.72	1.48



ORDER #	1-4	5-9	10-29	30-99
TA7358	2.08	1.83	1.59	1.37
TA7361	6.50	5.59	4.98	4.53
TA7362	3.31	2.88	2.47	2.20
TA7364	2.39	2.11	1.83	1.58
TA7366	2.18	1.92	1.67	1.44
TA7368	2.24	1.97	1.72	1.48
TA7378	1.87	1.65	1.44	1.23
TA7401	3.80	3.30	2.84	2.53
TA7405	3.14	2.73	2.35	2.09
TA7504	2.00	1.76	1.53	1.32
TA7555	2.14	1.88	1.64	1.41
TA7606	4.07	3.54	3.05	2.71
TA7607	5.95	5.18	4.45	3.96
TA7609	5.14	4.47	3.85	3.42
TA7611	5.75	4.95	4.40	4.01
TA7613	4.57	3.93	3.50	3.18
TA7614	3.84	3.34	2.88	2.56
TA7616	3.91	3.40	2.93	2.60
TA7621	15.28	13.29	12.10	11.01
TA7622	7.69	6.69	6.09	5.54
TA7628	3.68	3.20	2.75	2.45
TA7629	5.12	4.45	3.83	3.41
TA7630	5.05	4.40	3.78	3.37
TA7634	16.43	14.30	13.01	11.84
TA7640	2.84	2.49	2.17	1.87
TA7644	10.50	9.14	8.31	7.56
TA7654	2.14	1.89	1.64	1.41
TA7658	2.77	2.43	2.12	1.82
TA7660	7.40	6.36	5.66	5.15
TA7664	10.23	8.90	8.10	7.37
TA7666	2.58	2.27	1.98	1.70
TA7668	2.77	2.43	2.12	1.82
TA7670	9.95	8.66	7.88	7.17
TA7673	3.70	3.22	2.77	2.46
TA7678	8.48	7.30	6.49	5.91
TA7680	8.62	7.50	6.82	6.21
TA7681	7.74	6.65	5.92	5.39
TA7704	3.89	3.39	2.91	2.59
TA7705	3.38	2.94	2.53	2.25
TA7712P	5.40	4.64	4.13	3.76
TA7717	7.98	6.95	6.32	5.75
TA7719	5.81	5.00	4.45	4.05
TA7731	6.95	5.97	5.32	4.84
TA7736	4.42	3.80	3.38	3.08
TA7739	3.33	2.90	2.49	2.22
TA7741	6.00	5.16	4.59	4.18
TA7744	10.17	8.85	8.05	7.33
TA7750	6.77	5.89	5.36	4.88
TA7769	3.10	2.70	2.32	2.07
TA7770	6.41	5.51	4.91	4.46
TA7772	5.01	4.31	3.83	3.49
TA7777	19.50	17.16	15.62	14.37
TA7777N	16.01	13.92	12.67	11.53
TA7778	9.81	8.53	7.76	7.07
TA7784	3.64	3.16	2.72	2.42
TA7787	3.85	3.35	2.88	2.56
TA7788	20.74	18.25	16.61	15.28
TA8101	7.86	6.76	6.01	5.47
TA8102	3.03	2.64	2.27	2.02
TA8105	4.46	3.88	3.34	2.97
TA8108	3.00	2.64	2.30	1.98
TA8135	3.06	2.66	2.29	2.03
TA8200	6.89	5.93	5.28	4.80
TA8201	5.08	4.37	3.89	3.54
TA8205	7.40	6.36	5.66	5.15
TA8208	4.41	3.80	3.38	3.07
TA8210	8.58	7.46	6.79	6.18
TA8211	5.53	4.75	4.23	3.85
TA8215L	7.17	6.16	5.49	4.99
TA8400	4.42	3.81	3.39	3.08
TA8405	3.96	3.44	2.96	2.63
TA8405S	4.02	3.49	3.00	2.67
TA8601BN	12.08	10.51	9.56	8.70
TA8604	6.95	6.05	5.50	5.01
TA8605	7.82	6.73	5.99	5.45
TA8606	6.18	5.32	4.73	4.31
TA8607	5.72	4.92	4.38	3.99
TA8609	4.99	4.34	3.73	3.32
TA8620P	6.61	5.68	5.06	4.60
TA8647S	8.46	7.27	6.47	5.89

ORDER #	1-4	5-9	10-29	30-99
TA8655AN	13.58	11.81	10.75	9.78
TA8677	15.73	13.84	12.59	11.59
TA8680N	11.42	9.93	9.04	8.23
TA75339	2.22	1.95	1.70	1.46
TA75393	1.27	1.12	0.97	0.84
TA75458	1.58	1.39	1.21	1.04
TA75557	1.27	1.12	0.97	0.84
TA75557S	1.38	1.21	1.05	0.91
TA75558S	1.73	1.52	1.32	1.14
TA75902	2.33	2.05	1.78	1.53
TBA800S	5.10	4.44	3.82	3.40
TBA810SH	2.82	2.45	2.11	1.88
TBA820M	1.39	1.22	1.06	0.91
TBS185A030N	4.79	4.12	3.46	3.01
TC4000 SERIES USE 4000 SERIES				
TC4510	2.90	2.55	2.22	1.91
TC4520	2.72	2.39	2.08	1.79
TC5048P	5.16	4.49	3.86	3.44
TC5051	5.88	5.06	4.50	4.10
TC5082	5.10	4.44	3.82	3.40
TC5090	7.20	6.19	5.51	5.02
TC5090AP	8.06	6.93	6.17	5.61
TC9002	8.51	7.41	6.74	6.13
TC9106	6.99	6.08	5.54	5.04
TC9109	7.00	6.02	5.36	4.88
TC9125	7.57	6.51	5.79	5.27
TC9130	3.51	3.06	2.63	2.34
TC9134P	9.10	7.92	7.20	6.55
TC9137	10.14	8.83	8.03	7.31
TC9142N	5.40	4.64	4.13	3.76
TC9142P	4.27	3.67	3.27	2.98
TC9145	3.47	3.02	2.60	2.31
TC9147	10.82	9.41	8.57	7.79
TC9149	4.69	4.08	3.51	3.13
TC9150	6.29	5.41	4.81	4.38
TC9151	7.30	6.28	5.59	5.09
TC9152P	4.67	4.02	3.57	3.25
TC9153	5.44	4.73	4.07	3.62
TC9154	5.18	4.46	3.97	3.61
TC9156	4.85	4.17	3.71	3.37
TC9157AP	10.87	9.46	8.61	7.83
TC9158P	5.09	4.38	3.90	3.55
TC9162	5.51	4.74	4.22	3.84
TC9163	6.70	5.76	5.13	4.67
TC9164	6.32	5.44	4.84	4.40
TC9167P	3.84	3.34	2.87	2.55
TC9171	7.03	6.04	5.38	4.90
TC9172	5.06	4.40	3.78	3.37
TC9173	4.25	3.70	3.18	2.83
TC9176	7.04	6.06	5.39	4.91
TC9177	7.40	6.43	5.85	5.33
TC9201	9.47	8.24	7.50	6.82
TC9212	5.99	5.15	4.58	4.17
TC9221	14.75	12.84	11.68	10.63
TC9310	6.66	5.79	5.27	4.79
TCM5089	2.99	2.63	2.29	1.97
TD6104	3.51	3.05	2.63	2.34
TD6301AN	7.42	6.38	5.68	5.17
TD6306P	6.55	5.63	5.01	4.56
TD6350	8.77	7.89	7.10	6.39
TD6358	6.80	5.85	5.20	4.74
TD6359P	6.52	5.61	4.99	4.54
TD6360	15.55	13.52	12.31	11.20
TDA1011	3.87	3.37	2.90	2.58
TDA1013	6.50	5.59	4.98	4.53
TDA1044	8.19	7.04	6.27	5.70
TDA1151	2.46	2.16	1.88	1.62
TDA1170	5.28	4.59	3.95	3.52
TDA1180	5.04	4.33	3.85	3.51
TDA1190Z	4.85	4.17	3.71	3.38
TDA1220A	4.35	3.78	3.25	2.90
TDA1515	7.28	6.26	5.57	5.07
TDA1518	7.75	6.66	5.93	5.40
TDA1520	6.26	5.38	4.79	4.36
TDA1541	14.12	12.28	11.18	10.17
TDA1670	6.04	5.19	4.62	4.20
TDA1872A	7.35	6.32	5.63	5.12
TDA1904	3.09	2.72	2.36	2.03

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
TDA1905	5.45	4.74	4.08	3.63
TDA1908	3.25	2.82	2.43	2.16
TDA2002	2.93	2.58	2.24	1.93
TDA2003	3.01	2.64	2.30	1.98
TDA2004	4.29	3.73	3.21	2.86
TDA2005	5.50	4.79	4.12	3.66
TDA2006	4.65	4.04	3.48	3.09
TDA2008	5.17	4.44	3.96	3.60
TDA2009	7.77	6.68	5.95	5.41
TDA2010	7.74	6.74	6.13	5.58
TDA2030	5.50	4.79	4.12	3.66
TDA2040	5.60	4.81	4.28	3.90
TDA2540	4.85	4.22	3.63	3.23
TDA2541	4.58	3.94	3.50	3.19
TDA2545	6.63	5.70	5.07	4.62
TDA2546	6.59	5.67	5.04	4.59
TDA2577	7.10	6.10	5.43	4.94
TDA2579	6.93	6.03	5.49	4.99
TDA2582	6.50	5.59	4.98	4.53
TDA2591	6.76	5.81	5.17	4.71
TDA2593	4.57	3.97	3.42	3.04
TDA2595	8.03	6.91	6.15	5.59
TDA2611	4.35	3.78	3.25	2.89
TDA2653	8.45	7.35	6.69	6.09
TDA2822M	2.59	2.28	1.98	1.70
TDA2824	3.47	3.01	2.59	2.31
TDA3190	4.02	3.49	3.01	2.68
TDA3505	7.43	6.46	5.88	5.35
TDA3561	9.43	8.20	7.46	6.79
TDA3569	8.16	7.02	6.25	5.68
TDA3570	9.20	8.00	7.28	6.63
TDA3651	5.55	4.78	4.25	3.87
TDA3654	7.23	6.21	5.53	5.03
TDA4050	4.63	3.98	3.55	3.23
TDA4433	4.89	4.20	3.74	3.40
TDA4505	11.48	9.99	9.09	8.27
TDA4555	9.57	8.33	7.58	6.89
TDA4600	10.89	9.47	8.62	7.85
TDA4601	5.46	4.70	4.18	3.81
TDA5708	17.40	15.31	13.93	12.82
TDA7240	6.49	5.58	4.97	4.52
TDA8444	8.42	7.24	6.44	5.86
TEA0665	7.86	6.76	6.02	5.48
TEA2025B	2.71	2.38	2.07	1.78
UA703	7.00	5.88	5.12	4.45
UA723CN	1.95	1.70	1.46	1.30
UA733	1.59	1.40	1.21	1.02
UA7815CKC*	2.88	2.59	2.33	2.10
ULN2003	3.09	2.72	2.36	2.03
ULN3859	6.16	5.30	4.72	4.29
UPA53	1.87	1.65	1.43	1.23
UPA53C	1.73	1.52	1.32	1.14
UPA56	3.11	2.73	2.38	2.04
UPA67	3.51	3.05	2.62	2.34
UPA68	2.99	2.60	2.23	1.99
UPA74	2.69	2.37	2.06	1.77
UPA80C	1.96	1.72	1.50	1.29
UPA2004	2.07	1.82	1.58	1.36
UPC16	0.95	0.85	0.75	0.65
UPC17	4.61	4.01	3.45	3.07
UPC20	5.02	4.32	3.84	3.50
UPC27	5.16	4.49	3.86	3.43
UPC29	8.57	7.45	6.78	6.17
UPC30	2.58	2.27	1.98	1.70
UPC41	4.90	4.26	3.66	3.26
UPC141	4.44	3.87	3.32	2.96
UPC151C	2.63	2.31	2.01	1.73
UPC157	4.40	3.83	3.29	2.93
UPC324	1.80	1.59	1.38	1.19
UPC339C	1.19	1.04	0.91	0.78
UPC494	2.78	2.42	2.08	1.85
UPC554	3.02	2.66	2.32	1.99
UPC562	7.75	6.66	5.93	5.39
UPC563*	3.38	2.94	2.53	2.25
UPC566	1.58	1.39	1.21	1.04
UPC571H	4.64	4.04	3.47	3.09
UPC574	1.20	1.08	0.95	0.83
UPC575	2.58	2.27	1.98	1.70
UPC576	5.54	4.76	4.24	3.86
UPC577	2.65	2.33	2.03	1.74



SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
UPC587	4.88	4.24	3.65	3.25
UPC592	1.22	1.08	0.94	0.80
UPC595	5.28	4.59	3.95	3.52
UPC596	3.07	2.67	2.30	2.04
UPC1001	4.40	3.83	3.29	2.93
UPC1008	3.99	3.47	2.98	2.66
UPC1016	5.36	4.67	4.01	3.57
UPC1018	2.07	1.82	1.58	1.36
UPC1021	1.20	1.05	0.92	0.79
UPC1024	2.38	2.09	1.82	1.56
UPC1025	3.38	2.94	2.53	2.25
UPC1026	1.89	1.66	1.45	1.24
UPC1028	2.47	2.17	1.89	1.63
UPC1031	4.77	4.15	3.57	3.18
UPC1032	2.16	1.90	1.65	1.42
UPC1042	4.24	3.68	3.17	2.82
UPC1158	2.12	1.86	1.62	1.39
UPC1161	3.32	2.89	2.48	2.21
UPC1167	3.10	2.70	2.32	2.07
UPC1170	3.45	3.00	2.58	2.30
UPC1171	4.30	3.74	3.22	2.86
UPC1173	4.30	3.74	3.22	2.86
UPC1177	4.92	4.28	3.68	3.28
UPC1178	2.95	2.56	2.20	1.96
UPC1181	5.11	4.40	3.91	3.56
UPC1182	3.20	2.78	2.39	2.13
UPC1185	4.51	3.92	3.37	3.00
UPC1187	3.77	3.28	2.82	2.51
UPC1188	7.61	6.54	5.82	5.30
UPC1197	2.03	1.79	1.56	1.34
UPC1200	3.77	3.28	2.82	2.51
UPC1211	6.06	5.22	4.64	4.22
UPC1212	1.93	1.70	1.48	1.27
UPC1213	2.25	1.98	1.72	1.48
UPC1215	3.40	2.96	2.55	2.27
UPC1216	4.16	3.62	3.12	2.77
UPC1225	4.68	4.07	3.50	3.12
UPC1228	1.79	1.57	1.37	1.18
UPC1230	5.51	4.74	4.22	3.84
UPC1237	2.53	2.23	1.94	1.67
UPC1238	4.02	3.49	3.00	2.67
UPC1242	3.07	2.67	2.30	2.05
UPC1245	3.93	3.42	2.94	2.61
UPC1255	5.45	4.74	4.07	3.63
UPC1263	2.79	2.43	2.09	1.86
UPC1270	5.48	4.77	4.10	3.65
UPC1274	5.83	5.01	4.46	4.06
UPC1277	4.60	4.01	3.44	3.07
UPC1278	4.98	4.34	3.73	3.32
UPC1280	6.65	5.72	5.09	4.63
UPC1288	5.40	4.70	4.04	3.60
UPC1290	5.23	4.55	3.91	3.48
UPC1310V	5.71	4.91	4.37	3.98
UPC1316	3.65	3.18	2.73	2.43
UPC1318	6.42	5.52	4.92	4.47
UPC1350	3.10	2.73	2.38	2.04
UPC1352	6.80	5.85	5.20	4.74
UPC1353	3.88	3.37	2.90	2.58
UPC1356	5.30	4.61	3.96	3.53
UPC1361C	5.44	4.68	4.16	3.79
UPC1362	5.45	4.74	4.07	3.63
UPC1365	8.47	7.28	6.48	5.90
UPC1366	4.69	4.08	3.51	3.12
UPC1367*	15.93	13.86	12.61	11.48
UPC1372	8.44	7.26	6.46	5.88
UPC1373	2.25	1.98	1.72	1.48
UPC1377	4.31	3.70	3.30	3.00
UPC1378	3.20	2.78	2.39	2.13
UPC1379	5.44	4.73	4.07	3.62
UPC1380	12.21	10.62	9.67	8.80
UPC1382	2.81	2.45	2.10	1.87
UPC1391	2.77	2.41	2.07	1.85
UPC1394	3.69	3.21	2.76	2.45
UPC1397	5.47	4.76	4.09	3.64
UPC1402	9.99	8.69	7.91	7.20
UPC1458*	1.26	1.11	0.96	0.83
UPC1470	1.33	1.17	1.02	0.88
UPC1474	2.25	1.98	1.72	1.48
UPC1477	9.21	8.01	7.29	6.63
UPC1480	8.40	7.22	6.43	5.85

ORDER #	1-4	5-9	10-29	30-99
UPC1480CA	6.99	6.01	5.35	4.87
UPC1481	7.64	6.65	6.05	5.50
UPC1484	5.95	5.12	4.55	4.14
UPC1486	4.26	3.71	3.19	2.84
UPC1488	3.60	3.13	2.69	2.40
UPC1498	4.40	3.79	3.37	3.07
UPC1504	5.84	5.02	4.47	4.07
UPC1505	5.63	4.84	4.31	3.92
UPC1513	2.09	1.84	1.60	1.38
UPC1520	4.45	3.82	3.40	3.10
UPC1525	6.56	5.64	5.02	4.57
UPC1534C	4.94	4.24	3.78	3.44
UPC1536	10.17	8.85	8.05	7.33
UPC1870CA	18.09	15.92	14.49	13.33
UPC2002	2.72	2.40	2.08	1.79
UPC4556	1.42	1.25	1.08	0.93
UPC4557	2.12	1.86	1.62	1.39
UPC4558*	1.26	1.11	0.96	0.83
UPC4559*	3.58	3.11	2.67	2.38
UPC4560	1.63	1.43	1.25	1.07
UPC4570	1.39	1.22	1.06	0.91
UPD553	5.29	4.55	4.05	3.69
UPD857	5.57	4.79	4.26	3.88
UPD861	12.40	10.79	9.82	8.94
UPD1701	11.88	10.34	9.41	8.56
UPD1703	11.71	10.18	9.27	8.43
UPD1705	15.31	13.32	12.12	11.03
UPD1708	11.69	10.17	9.25	8.42
UPD1709ACT	13.23	11.51	10.47	9.53
UPD1710	12.22	10.63	9.67	8.80
UPD1937	6.33	5.44	4.84	4.41
UPD1943	5.88	5.06	4.50	4.10
UPD1987	6.55	5.64	5.02	4.56
UPD4503	3.12	2.75	2.39	2.06
UPD6251	7.17	6.24	5.68	5.17
UPD6326C	7.59	6.53	5.81	5.29
UPD6336	7.67	6.60	5.87	5.34
UPD8251	7.00	6.02	5.36	4.88
ZENITH ICs				
221-42*	4.28	3.85	3.47	3.12
221-43	4.95	4.25	3.79	3.44
221-45*	5.48	4.93	4.44	3.99
221-45-01*	5.48	4.93	4.44	3.99
221-46	5.50	4.79	4.12	3.66
221-48*	2.34	2.06	1.79	1.54
221-51*	5.50	4.79	4.12	3.66
221-52*	5.50	4.79	4.12	3.66
221-69*	4.62	4.15	3.74	3.37
221-79*	4.72	4.25	3.82	3.44
221-87-01	6.77	5.83	5.19	4.72
221-105	5.22	4.49	3.99	3.63
74 SERIES				
7400	1.01	0.89	0.77	0.66
7401	0.95	0.85	0.75	0.65
7403	1.17	1.05	0.92	0.80
7404	1.13	1.00	0.87	0.75
7405	1.39	1.22	1.06	0.91
7406	1.39	1.22	1.06	0.91
7407	1.58	1.39	1.21	1.04
7408	1.12	0.99	0.86	0.74
7409	1.65	1.45	1.26	1.06
7410	1.16	1.04	0.92	0.80
7411	1.83	1.61	1.40	1.18
7413	1.01	0.89	0.77	0.66
7416	1.22	1.09	0.96	0.84
7417	1.53	1.34	1.17	0.98
7420	1.59	1.40	1.21	1.02
7426	0.81	0.73	0.64	0.56
7427	1.18	1.06	0.94	0.81
7430	1.20	1.08	0.95	0.83
7432	1.13	1.00	0.87	0.75
7438	1.25	1.10	0.96	0.83
7440	0.89	0.80	0.71	0.61
7442	1.53	1.34	1.17	0.98
7445	2.52	2.22	1.93	1.66
7447	4.62	4.02	3.46	3.08
7448	6.38	5.48	4.88	4.44
7451	1.50	1.32	1.15	0.99

*MCM is not able to supply this number.
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ORDER #	1-4	5-9	10-29	30-99
7454	1.03	0.91	0.79	0.68
7460	3.44	2.99	2.57	2.29
7470	1.23	1.09	0.95	0.81
7472	2.09	1.84	1.60	1.38
7473	1.64	1.45	1.26	1.08
7474	1.07	0.94	0.82	0.71
7475	2.99	2.63	2.29	1.92
7476	2.14	1.88	1.64	1.41
7483	1.84	1.62	1.41	1.21
7485	1.01	0.89	0.78	0.67
7486	2.07	1.83	1.59	1.33
7489	7.35	6.40	5.82	5.30
7492	2.81	2.47	2.15	1.80
7493	1.35	1.19	1.04	0.89
7495	2.56	2.25	1.96	1.65
7496	1.66	1.46	1.27	1.10
74107	0.97	0.87	0.77	0.67
74121	1.58	1.39	1.21	1.04
74123	1.89	1.67	1.45	1.25
74125	2.07	1.82	1.59	1.36
74126	1.26	1.11	0.96	0.83
74148	2.52	2.22	1.93	1.66
74150	4.53	3.94	3.39	3.02
74151	1.53	1.34	1.17	0.98
74153	1.17	1.03	0.89	0.77
74154	4.73	4.12	3.54	3.15
74155	1.58	1.39	1.21	1.04
74156	1.76	1.55	1.35	1.16
74157	1.20	1.05	0.92	0.79
74161	1.59	1.40	1.22	1.05
74163	2.84	2.49	2.17	1.87
74164	1.83	1.61	1.40	1.18
74165	1.59	1.40	1.21	1.05
74166	0.99	0.87	0.76	0.65
74174	1.39	1.22	1.06	0.91
74180	2.20	1.94	1.69	1.45
74184	3.30	2.87	2.47	2.20
74193	2.81	2.41	2.03	1.76
74194	4.22	3.67	3.16	2.81
74197	3.12	2.74	2.39	2.05
74198	5.04	4.33	3.85	3.51
74251	2.95	2.57	2.21	1.96
74284	8.95	7.79	7.09	6.45
74367	1.76	1.55	1.35	1.16
74368	1.83	1.61	1.40	1.20
74LS SERIES				
74LS00	0.82	0.74	0.65	0.56
74LS01	1.13	1.00	0.87	0.75
74LS02	0.90	0.81	0.71	0.62
74LS03	1.13	1.00	0.87	0.75
74LS04	0.80	0.72	0.64	0.55
74LS05	0.80	0.72	0.64	0.55
74LS07	2.33	2.05	1.78	1.53
74LS08	1.16	1.05	0.92	0.80
74LS09	2.18	1.92	1.67	1.44
74LS10	0.89	0.80	0.71	0.61
74LS11	1.20	1.05	0.92	0.79
74LS13	1.32	1.16	1.01	0.87
74LS14	1.02	0.90	0.78	0.67
74LS15	1.33	1.17	1.02	0.88
74LS20	1.19	1.07	0.94	0.82
74LS22	1.22	1.09	0.96	0.84
74LS27	0.74	0.66	0.58	0.51
74LS28	1.22	1.09	0.96	0.84
74LS30	1.13	1.00	0.87	0.75
74LS32	1.16	1.04	0.92	0.80
74LS37	1.07	0.94	0.82	0.71
74LS38	1.07	0.94	0.82	0.71
74LS42	1.13	1.00	0.87	0.75
74LS47	4.40	3.83	3.29	2.93
74LS48	3.20	2.78	2.39	2.13
74LS51	1.19	1.07	0.94	0.82
74LS73	3.05	2.68	2.33	2.01
74LS74	1.04	0.91	0.79	0.68
74LS75	1.40	1.23	1.07	0.92
74LS76	1.16	1.02	0.89	0.75
74LS78	1.96	1.73	1.50	1.29
74LS83	1.44	1.26	1.10	0.95
74LS85	1.13	1.00	0.87	0.75
74LS86	1.19	1.07	0.94	0.82

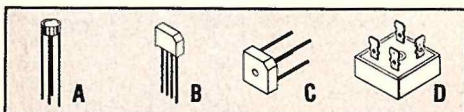


ORDER #	1-4	5-9	10-29	30-99
74LS90	1.13	1.00	0.87	0.75
74LS93	1.28	1.13	0.98	0.82
74LS109	1.13	1.02	0.90	0.78
74LS113	1.13	1.02	0.90	0.78
74LS122	2.29	2.02	1.75	1.51
74LS123	1.46	1.28	1.11	0.96
74LS125	1.39	1.22	1.06	0.91
74LS132	1.22	1.09	0.96	0.84
74LS138	1.13	0.99	0.86	0.74
74LS139	1.24	1.09	0.95	0.82
74LS140	2.20	1.94	1.69	1.45
74LS151	1.13	1.00	0.87	0.75
74LS153	1.13	1.00	0.87	0.75
74LS154	3.07	2.67	2.30	2.04
74LS155	1.26	1.11	0.96	0.83
74LS156	1.22	1.08	0.94	0.80
74LS157	1.04	0.91	0.79	0.67
74LS158	1.11	0.98	0.85	0.73
74LS161	1.03	0.91	0.79	0.68
74LS163	1.37	1.21	1.05	0.90
74LS164	1.12	0.98	0.85	0.73
74LS173	1.58	1.39	1.21	1.04
74LS174	1.13	1.00	0.87	0.75
74LS175	1.39	1.22	1.06	0.91
74LS181	5.23	4.55	3.91	3.48
74LS190	1.26	1.11	0.96	0.83
74LS192	1.58	1.39	1.21	1.04
74LS193	1.26	1.11	0.96	0.83
74LS197	1.24	1.09	0.95	0.82
74LS221	1.26	1.13	0.96	0.83
74LS241	1.51	1.33	1.16	1.00
74LS243	3.03	2.63	2.26	2.01
74LS244	1.89	1.66	1.45	1.24
74LS247	3.09	2.72	2.37	2.03
74LS248	4.36	3.79	3.26	2.90
74LS257	1.12	0.98	0.85	0.73
74LS258	1.13	1.00	0.87	0.75
74LS259	1.27	1.12	0.97	0.84
74LS266	1.08	0.95	0.82	0.71
74LS273	1.76	1.55	1.35	1.16
74LS279	1.15	1.01	0.88	0.76
74LS283	1.17	1.06	0.93	0.81
74LS295	1.86	1.64	1.43	1.23
74LS323	5.57	4.79	4.26	3.88
74LS365	1.74	1.53	1.33	1.14
74LS366	1.97	1.73	1.50	1.29
74LS367	1.03	0.90	0.79	0.68
74LS368	1.35	1.19	1.03	0.89

ORDER #	1-4	5-9	10-29	30-99
74LS373	1.67	1.47	1.28	1.10
74LS386	1.06	0.93	0.81	0.70
74LS541	2.60	2.24	1.88	1.63
74LS590D	11.62	9.99	8.70	7.83
74LS629	7.72	6.64	5.91	5.38
74LS670	4.53	3.90	3.47	3.16
74S32N	0.97	0.87	0.77	0.67
CMOS SERIES				
4001	1.13	1.02	0.90	0.78
4002	1.58	1.39	1.21	1.04
4007	1.04	0.91	0.80	0.68
4009	1.22	1.09	0.96	0.84
4010	2.14	1.88	1.64	1.41
4011	1.07	0.96	0.85	0.74
4012	1.40	1.23	1.07	0.90
4013	1.14	1.03	0.90	0.79
4015	2.44	2.15	1.87	1.57
4016	1.15	1.01	0.88	0.76
4017	1.64	1.44	1.25	1.08
4018	2.96	2.61	2.27	1.95
4019	1.55	1.36	1.19	1.02
4020	1.80	1.58	1.38	1.19
4021	2.07	1.83	1.59	1.33
4023	1.22	1.09	0.96	0.84
4025	1.13	1.00	0.87	0.75
4027	1.73	1.52	1.33	1.14
4028	1.89	1.66	1.45	1.24
4030	1.16	1.02	0.89	0.75
4035	1.76	1.55	1.35	1.16
4040	2.84	2.49	2.17	1.87
4042	1.26	1.11	0.96	0.83
4044	2.66	2.34	2.04	1.75
4046	2.92	2.54	2.18	1.94
4047	2.17	1.91	1.66	1.43
4050	1.56	1.37	1.19	1.02
4051	1.34	1.18	1.03	0.86
4052	1.22	1.07	0.93	0.80
4053	1.76	1.55	1.35	1.16
4060	1.51	1.33	1.16	1.00
4066	1.28	1.13	0.98	0.82
4069	1.53	1.34	1.17	0.98
4070	1.45	1.28	1.11	0.95
4071	1.82	1.60	1.39	1.20
4076	2.61	2.30	2.00	1.72
4081	1.22	1.09	0.96	0.84
4082	0.98	0.86	0.75	0.65

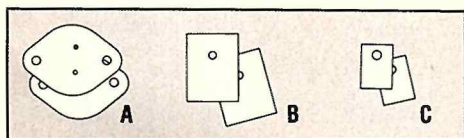
*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
4093	1.68	1.47	1.28	1.10
4503	1.58	1.39	1.21	1.04
4510	3.87	3.36	2.89	2.57
4511	2.07	1.83	1.59	1.33
4515	1.82	1.60	1.39	1.20
4518	4.28	3.73	3.21	2.85
4520	1.66	1.46	1.27	1.09
4526	2.93	2.55	2.19	1.95
4528	2.93	2.55	2.19	1.95
4529	5.05	4.34	3.86	3.52
4538	1.77	1.56	1.36	1.17
4585	1.86	1.64	1.43	1.23
MICROPROCESSORS AND MEMORIES				
2708	7.33	6.38	5.81	5.28
2716	8.00	6.72	5.85	5.09
2732-350NS	9.08	7.90	7.19	6.54
2764	8.78	7.55	6.57	5.91
27128A	12.02	10.46	9.52	8.66
27256	16.50	14.52	13.21	12.16
6502	6.50	5.59	4.98	4.53
6502A	9.67	8.32	7.24	6.51
6520	10.06	8.65	7.53	6.78
6522	10.34	8.89	7.73	6.96
6532	14.06	12.23	11.13	10.13
6567	25.51	22.45	20.43	18.80
8080	13.50	11.75	10.69	9.73
8085	10.30	8.85	7.70	6.93
8085A-2	17.59	15.13	13.16	11.84
8086	10.40	9.04	8.23	7.49
8088	7.43	6.46	5.88	5.35
8253-5	7.44	6.40	5.69	5.18
8253C-5	7.44	6.40	5.69	5.18
8255A-5	7.86	6.76	6.02	5.48
8259A	5.26	4.57	3.93	3.50
8284A	5.53	4.75	4.23	3.85
2114L-200NS	5.36	4.61	4.10	3.73
4116-150NS	4.54	3.91	3.48	3.16
4116-200NS*	4.54	3.91	3.48	3.16
4164-150NS	8.58	7.38	6.42	5.78
4164-200NS*	5.95	5.12	4.55	4.14
41256-120NS	20.95	18.65	16.97	15.44
41256-150NS	19.95	17.76	16.16	14.71
6116-200NS*	8.54	7.43	6.76	6.15
6116P-150NS	13.07	11.24	9.78	8.80
Z-80	5.31	4.57	4.07	3.70
Z-80A	6.34	5.45	4.85	4.42



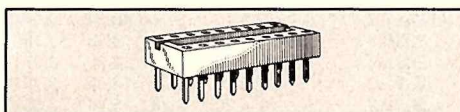
Bridge Rectifiers

Fig.	Order #	Voltage	Current	Price (1-9)	Price (10-up)
A	28-0575	400V	1.5A	\$.85	\$.75
B	28-018	400V	2A	.95	.85
B	28-020	400V	3A	1.50	1.30
C	28-023	400V	6A	2.10	1.85
C	28-025	400V	8A	2.80	2.40
D	28-027	600V	25A	4.80	4.45
D	28-029	600V	35A	5.95	5.50



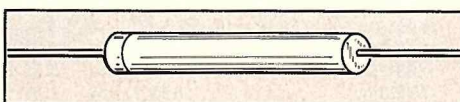
Transistor Insulators

Fig.	Order #	Type	Qty.	Price (1-9)	Price (10-24)	Price (25-49)
A	21-1165	TO-3 Mica	25	\$.90	\$.80	\$.70
A	21-1150	TO-3 Silicon Rubber	10	2.60	2.20	1.95
B	21-1170	TO-3P Mica	25	3.50	3.00	2.70
B	21-1155	TO-3P Silicon Rubber	10	1.75	1.40	1.25
C	21-1175	TO-220 Mica	25	2.05	1.65	1.50
C	21-1160	TO-220 Silicon Rubber	10	.95	.75	.65



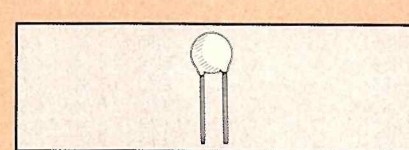
Dip IC Sockets

Order #	Pin	Price (1-9)	Price (10-49)	Price (50-up)
28-233	8	\$.25	\$.22	\$.18
28-235	14	.20	.18	.16
28-238	16	.22	.20	.18
28-239	18	.24	.22	.20
28-240	20	.24	.22	.20
28-243	22	.26	.24	.22
28-244	24	.28	.26	.24
28-245	28	.35	.32	.29
28-248	40	.40	.36	.32
28-249	42	.50	.45	.40



Focus Rectifier

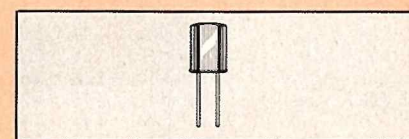
■ 20KV, 5mA ■ Replaces selenium part number: Admiral #93A57, GE #K122J176, Magnavox #53-0096-1, Philco #34-8053-2, RCA #1440977-1, Sears #86-44-3, Sylvania #13-16106, Zenith #212-48, 212-85					
#33-680		\$2.20 (1-9)	\$2.00 (10-49)	\$1.80 (50-up)	



Metal Oxide Varistor

■ Clamping voltage: 340V ■ Energy: 35 joules
■ Peak current: 2500A (20μsec) ■ Maximum allowable voltage: AC 130, DC 170 ■ Can be added to provide surge suppression to almost any 120VAC operated device ■ Three per bag

#28-790 \$3.75 (1-3 bags) \$2.85 (4 bags-up)



3.58MHz Crystal

■ Popular color burst crystal used in many computers and TVs ■ 3.579545MHz ■ Atari #C010177

#33-630 \$1.25 (1-9) \$1.10 (10-up)



ERS[®] SEMICONDUCTORS



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2 YEAR LIMITED WARRANTY

Thousands of dealers and technicians use these parts to replace the leading brand names. Each ERS Semiconductor meets or exceeds all recommended specifications and is backed with an unconditional Two Year Limited Warranty. ERS Semiconductors are individually packaged.

ORDER #	1-4	5-9	10-29	30-99	ORDER #	1-4	5-9	10-29	30-99	ORDER #	1-4	5-9	10-29	30-99
ERS16	0.83	0.75	0.67	0.61	ERS125	0.63	0.57	0.51	0.46	ERS223	19.50	17.55	15.80	14.22
ERS18	1.57	1.41	1.27	1.14	ERS126	4.68	4.21	3.79	3.41	ERS224	6.84	6.16	5.54	4.99
ERS20	1.95	1.76	1.58	1.42	ERS128	1.56	1.40	1.26	1.14	ERS225	4.54	4.08	3.67	3.31
ERS21	1.92	1.73	1.56	1.40	ERS129	1.58	1.43	1.28	1.15	ERS228	1.05	0.94	0.85	0.76
ERS31	9.08	8.17	7.35	6.62	ERS130	3.12	2.81	2.53	2.27	ERS229	1.39	1.25	1.13	1.01
ERS32	4.45	4.00	3.60	3.24	ERS132	1.28	1.15	1.04	0.93	ERS230	6.16	5.54	4.99	4.49
ERS33	5.99	5.39	4.85	4.37	ERS133	0.65	0.59	0.53	0.47	ERS231	6.19	5.57	5.02	4.51
ERS34	6.02	5.41	4.87	4.39	ERS135	0.74	0.66	0.60	0.54	ERS232	0.83	0.75	0.67	0.61
ERS36	3.48	3.13	2.82	2.54	ERS136	0.74	0.66	0.60	0.54	ERS233	0.82	0.73	0.66	0.59
ERS37	3.68	3.31	2.98	2.68	ERS137	0.74	0.66	0.60	0.54	ERS234	0.80	0.72	0.65	0.58
ERS38	3.98	3.59	3.23	2.90	ERS138	0.74	0.66	0.60	0.54	ERS235	5.04	4.54	4.08	3.67
ERS39	3.04	2.74	2.46	2.22	ERS139	0.74	0.66	0.60	0.54	ERS236	8.32	7.49	6.74	6.07
ERS40	1.46	1.31	1.18	1.06	ERS140	0.74	0.66	0.60	0.54	ERS238	12.60	11.34	10.21	9.19
ERS41	1.52	1.34	1.23	1.11	ERS142	0.74	0.66	0.60	0.54	ERS240	3.95	3.55	3.20	2.90
ERS42	1.47	1.32	1.19	1.07	ERS143	0.74	0.66	0.60	0.54	ERS241	1.94	1.74	1.57	1.41
ERS43	1.58	1.43	1.28	1.15	ERS144	0.74	0.66	0.60	0.54	ERS242	2.02	1.81	1.63	1.47
ERS44	1.44	1.30	1.17	1.05	ERS145	0.74	0.66	0.60	0.54	ERS243	2.69	2.42	2.18	1.96
ERS46	1.57	1.41	1.27	1.14	ERS146	0.74	0.66	0.60	0.54	ERS244	3.16	2.84	2.56	2.30
ERS47	0.85	0.76	0.69	0.62	ERS147	0.74	0.66	0.60	0.54	ERS245	3.64	3.28	2.95	2.65
ERS48	1.02	0.92	0.83	0.75	ERS148	0.74	0.66	0.60	0.54	ERS246	4.64	4.18	3.76	3.38
ERS49	2.92	2.63	2.37	2.13	ERS149	0.74	0.66	0.60	0.54	ERS247	4.20	3.78	3.40	3.06
ERS50	2.72	2.45	2.20	1.98	ERS151	0.74	0.66	0.60	0.54	ERS248	5.14	4.62	4.16	3.74
ERS51	3.08	2.77	2.49	2.25	ERS152	1.91	1.72	1.55	1.39	ERS249	6.70	6.03	5.43	4.89
ERS52	4.72	4.25	3.82	3.44	ERS153	2.32	2.09	1.88	1.69	ERS250	6.80	6.12	5.51	4.96
ERS53	8.92	8.03	7.23	6.50	ERS154	2.71	2.44	2.20	1.98	ERS251	6.70	6.03	5.43	4.89
ERS54	2.92	2.63	2.37	2.13	ERS155	2.88	2.59	2.33	2.10	ERS252	6.80	6.12	5.51	4.96
ERS55	3.52	3.17	2.85	2.57	ERS156	1.04	0.94	0.84	0.76	ERS253	1.74	1.57	1.41	1.27
ERS56	2.64	2.38	2.14	1.92	ERS157	1.84	1.66	1.49	1.34	ERS254	2.92	2.63	2.37	2.13
ERS58	10.50	9.45	8.51	7.65	ERS158	1.64	1.48	1.33	1.20	ERS258	2.92	2.63	2.37	2.13
ERS59	12.60	11.34	10.21	9.19	ERS159	1.31	1.18	1.06	0.96	ERS259	2.35	2.12	1.91	1.71
ERS60	8.16	7.34	6.61	5.95	ERS161	2.04	1.84	1.65	1.49	ERS260	3.32	2.99	2.69	2.42
ERS61	9.12	8.21	7.39	6.65	ERS162	7.20	6.48	5.83	5.25	ERS261	1.56	1.40	1.26	1.14
ERS63	2.76	2.48	2.24	2.01	ERS163	6.05	5.45	4.90	4.41	ERS262	2.04	1.84	1.65	1.49
ERS64	2.60	2.34	2.11	1.90	ERS164	6.72	6.05	5.44	4.90	ERS263	1.92	1.73	1.56	1.40
ERS65	2.16	1.94	1.75	1.57	ERS165	10.80	9.72	8.75	7.87	ERS264	2.34	2.11	1.90	1.71
ERS66	8.16	7.34	6.61	5.95	ERS166	1.52	1.37	1.23	1.11	ERS265	1.10	0.99	0.89	0.80
ERS68	7.84	7.06	6.35	5.72	ERS167	1.70	1.53	1.37	1.24	ERS266	1.39	1.25	1.13	1.01
ERS75	21.16	19.04	17.14	15.43	ERS168	1.94	1.74	1.57	1.41	ERS267	1.24	1.12	1.00	0.90
ERS76	19.50	17.55	15.80	14.22	ERS169	2.44	2.20	1.98	1.78	ERS268	1.26	1.13	1.02	0.92
ERS77	3.27	2.94	2.65	2.39	ERS170	3.96	3.56	3.21	2.89	ERS269	1.46	1.31	1.18	1.06
ERS78	3.44	3.10	2.79	2.51	ERS171	2.29	2.06	1.85	1.67	ERS270	4.35	3.92	3.53	3.17
ERS81	4.70	4.23	3.80	3.42	ERS172	0.72	0.65	0.58	0.52	ERS271	4.60	4.14	3.73	3.35
ERS82	6.12	5.51	4.96	4.46	ERS175	2.40	2.16	1.94	1.75	ERS272	1.65	1.49	1.34	1.20
ERS85	0.70	0.63	0.57	0.51	ERS176	3.73	3.36	3.02	2.72	ERS273	1.88	1.69	1.52	1.37
ERS86	5.98	5.38	4.84	4.36	ERS177	0.79	0.71	0.64	0.58	ERS274	3.90	3.51	3.16	2.84
ERS87	6.62	5.96	5.37	4.83	ERS180	7.07	6.36	5.73	5.16	ERS275	2.72	2.45	2.20	1.98
ERS88	6.84	6.16	5.54	4.99	ERS181	6.00	5.40	4.86	4.37	ERS276	9.96	8.96	8.07	7.26
ERS89	9.03	8.13	7.31	6.58	ERS182	3.74	3.37	3.03	2.73	ERS278	3.20	2.88	2.59	2.33
ERS90	1.12	1.01	0.91	0.82	ERS183	4.20	3.78	3.40	3.06	ERS280	5.04	4.54	4.08	3.67
ERS91	1.12	1.01	0.91	0.82	ERS184	1.68	1.51	1.36	1.22	ERS281	6.56	5.90	5.31	4.78
ERS92	5.48	4.93	4.44	3.99	ERS185	1.99	1.79	1.61	1.45	ERS283	7.92	7.13	6.42	5.77
ERS93	9.38	8.44	7.59	6.84	ERS186	1.91	1.72	1.55	1.39	ERS284	7.98	7.18	6.46	5.81
ERS94	3.76	3.38	3.05	2.74	ERS186A	1.91	1.72	1.55	1.39	ERS285	8.76	7.88	7.10	6.39
ERS98	15.19	13.67	12.31	11.07	ERS187	2.00	1.80	1.62	1.46	ERS286	6.76	6.08	5.48	4.93
ERS99	24.48	22.03	19.83	17.85	ERS187A	2.00	1.80	1.62	1.46	ERS287	0.77	0.69	0.62	0.56
ERS100	2.50	2.25	2.02	1.82	ERS188	1.92	1.73	1.56	1.40	ERS288	0.78	0.71	0.64	0.57
ERS101	3.01	2.71	2.44	2.19	ERS189	2.13	1.92	1.72	1.55	ERS289	1.06	0.95	0.86	0.77
ERS102	2.74	2.46	2.22	1.99	ERS190	2.48	2.23	2.01	1.81	ERS290	1.10	0.99	0.89	0.80
ERS103	3.18	2.87	2.58	2.32	ERS191	3.18	2.87	2.58	2.32	ERS291	2.38	2.14	1.92	1.73
ERS104	7.12	6.41	5.77	5.19	ERS192A	1.44	1.30	1.17	1.05	ERS292	2.60	2.34	2.11	1.90
ERS105	12.54	11.29	10.16	9.14	ERS194	0.84	0.76	0.68	0.61	ERS293	1.31	1.18	1.06	0.96
ERS106	1.12	1.01	0.91	0.82	ERS195	3.52	3.17	2.85	2.57	ERS294	1.30	1.17	1.06	0.95
ERS107	1.28	1.15	1.04	0.93	ERS196	2.39	2.15	1.94	1.74	ERS295	2.56	2.30	2.07	1.87
ERS108	1.31	1.18	1.06	0.96	ERS197	2.18	1.96	1.76	1.59	ERS297	1.31	1.18	1.06	0.96
ERS109	0.52	0.47	0.42	0.38	ERS198	2.56	2.30	2.07	1.87	ERS298	1.23	1.11	1.00	0.90
ERS110	0.81	0.73	0.65	0.59	ERS199	0.76	0.68	0.62	0.55	ERS299	2.58	2.32	2.09	1.88
ERS112	0.70	0.63	0.56	0.51	ERS210	1.72	1.55	1.39	1.25	ERS300	2.60	2.34	2.11	1.90
ERS113	1.70	1.53	1.38	1.24	ERS211	2.00	1.80	1.62	1.46	ERS302	2.86	2.57	2.31	2.08
ERS114	0.75	0.68	0.61	0.55	ERS218	4.20	3.78	3.40	3.06	ERS306	3.04	2.74	2.46	2.22
ERS116	0.53	0.48	0.43	0.38	ERS219	5.19	4.67	4.21	3.78	ERS307	3.12	2.81	2.53	2.27
ERS117	1.17	1.05	0.95	0.85	ERS220	2.90	2.61	2.35	2.12	ERS308	6.96	6.26	5.64	5.07
ERS118	2.36	2.12	1.91	1.72	ERS221	2.28	2.05	1.85	1.66	ERS309	3.60	3.24	2.92	2.62
ERS121	10.45	9.40	8.46	7.62	ERS222	2.46	2.21	1.99	1.79	ERS310	6.96	6.26	5.64	5.07
ERS123	0.92	0.83	0.75	0.67						ERS311	2.13	1.92	1.72	1.55
ERS124	1.84	1.66	1.49	1.34						ERS313	2.38	2.14	1.92	1.73

*MCM is not able to supply this number.
A guaranteed substitute will be sent.



CALL TOLL FREE 1-800-543-4330

IN CANADA CALL TOLL FREE
1-800-824-9491



ORDER #	1-4	5-9	10-29	30-99	ORDER #	1-4	5-9	10-29	30-99	ORDER #	1-4	5-9	10-29	30-99
ERS314	7.84	7.06	6.35	5.72	ERS556	24.90	22.41	22.41	22.41	ERS928	2.34	2.11	1.90	1.71
ERS315	2.21	1.99	1.79	1.61	ERS558	1.74	1.56	1.41	1.27	ERS934	28.50	25.65	23.09	20.78
ERS316	2.64	2.38	2.14	1.92	ERS559	31.80	28.62	28.62	28.62	ERS938*	3.30	2.87	2.47	2.20
ERS321	8.44	7.60	6.84	6.15	ERS561	24.80	22.32	22.32	22.32	ERS941	3.95	3.56	3.20	2.88
ERS322	2.60	2.34	2.11	1.90	ERS564	31.08	27.97	27.97	27.97	ERS941M	3.50	3.15	2.84	2.55
ERS323	3.90	3.51	3.16	2.84	ERS580	1.84	1.66	1.49	1.34	ERS947*	4.92	4.23	3.77	3.43
ERS324	3.60	3.24	2.92	2.62	ERS601	0.29	0.26	0.23	0.21	ERS948	5.60	5.04	4.54	4.08
ERS325*	27.00	23.76	21.62	19.89	ERS611	0.82	0.74	0.67	0.60	ERS950	1.66	1.49	1.34	1.21
ERS326	1.38	1.24	1.11	1.00	ERS612	0.82	0.74	0.67	0.60	ERS951	1.81	1.63	1.46	1.32
ERS327	15.64	14.08	12.67	11.40	ERS613	0.82	0.74	0.67	0.60	ERS955	1.34	1.21	1.09	0.98
ERS328	9.20	8.28	7.45	6.71	ERS616	1.55	1.40	1.26	1.13	ERS956	2.40	2.16	1.94	1.75
ERS331	2.34	2.10	1.89	1.70	ERS617	6.20	5.58	5.02	4.52	ERS957	2.82	2.53	2.28	2.05
ERS332	2.56	2.30	2.07	1.87	ERS701	7.70	6.93	6.24	5.61	ERS958	3.30	2.97	2.67	2.40
ERS333*	36.00	31.68	28.83	26.52	ERS703*	7.00	5.88	5.12	4.45	ERS959	3.27	2.94	2.65	2.39
ERS334*	36.00	31.68	28.83	26.52	ERS708	4.32	3.89	3.50	3.15	ERS960	2.80	2.52	2.27	2.04
ERS335*	26.99	23.75	21.61	19.88	ERS712	3.88	3.49	3.14	2.83	ERS961	3.84	3.46	3.11	2.80
ERS336*	39.00	34.42	31.23	28.73	ERS713	5.52	4.97	4.40	4.02	ERS962	2.88	2.59	2.33	2.10
ERS340	3.35	3.02	2.71	2.44	ERS714	4.28	3.85	3.47	3.12	ERS963	3.80	3.42	3.08	2.77
ERS369	5.00	4.50	4.05	3.65	ERS715	4.24	3.82	3.43	3.09	ERS964	2.68	2.41	2.17	1.95
ERS373	1.44	1.30	1.17	1.05	ERS718	5.52	4.97	4.47	4.02	ERS965	2.85	2.56	2.31	2.08
ERS374	1.60	1.44	1.30	1.17	ERS719	5.88	5.29	4.76	4.29	ERS966	2.88	2.59	2.33	2.10
ERS375	2.15	1.94	1.74	1.57	ERS720	5.72	5.15	4.63	4.17	ERS967	4.12	3.71	3.34	3.00
ERS376	2.72	2.45	2.20	1.98	ERS721	5.96	5.36	4.83	4.34	ERS968	2.88	2.59	2.33	2.10
ERS377	2.28	2.05	1.85	1.66	ERS722	4.72	4.25	3.82	3.44	ERS969	3.92	3.53	3.18	2.86
ERS378	2.40	2.16	1.94	1.75	ERS726	4.00	3.60	3.24	2.92	ERS970	8.60	7.74	6.97	6.27
ERS379	5.72	5.15	4.63	4.17	ERS729	7.80	7.02	6.32	5.69	ERS971	3.96	3.56	3.21	2.89
ERS382	1.64	1.48	1.33	1.20	ERS731	5.48	4.93	4.44	3.99	ERS972	2.84	2.56	2.30	2.07
ERS383	1.70	1.53	1.37	1.24	ERS736	6.24	5.62	5.05	4.55	ERS973	2.56	2.30	2.07	1.87
ERS384	4.96	4.46	4.02	3.62	ERS737	1.89	1.70	1.53	1.38	ERS973D	2.56	2.30	2.07	1.87
ERS385	6.92	6.23	5.61	5.04	ERS738	6.64	5.98	5.38	4.84	ERS975	4.40	3.83	3.29	2.93
ERS386	14.48	13.03	11.73	10.56	ERS739	6.64	5.98	5.38	4.84	ERS976*	1.89	1.66	1.45	1.24
ERS388	5.60	5.04	4.54	4.08	ERS740	4.80	4.32	3.89	3.50	ERS977	1.32	1.19	1.07	0.96
ERS389	5.20	4.68	4.21	3.79	ERS744	8.00	7.20	6.48	5.83	ERS978	2.04	1.84	1.65	1.49
ERS390	3.04	2.92	2.62	2.36	ERS747	5.31	4.78	4.30	3.87	ERS981	1.50	1.35	1.22	1.10
ERS391	4.77	4.29	3.86	3.47	ERS748	5.40	4.86	4.37	3.94	ERS984	7.00	6.30	5.67	5.10
ERS392	4.60	4.14	3.73	3.35	ERS778	1.36	1.22	1.10	0.99	ERS986	7.92	7.13	6.42	5.77
ERS393	4.84	4.36	3.92	3.53	ERS779	7.24	6.52	5.86	5.28	ERS987	1.84	1.66	1.49	1.34
ERS394	5.24	4.72	4.27	3.82	ERS780	5.40	4.86	4.37	3.94	ERS989	2.24	2.02	1.81	1.63
ERS395	3.40	3.06	2.75	2.48	ERS783	5.82	5.24	4.71	4.24	ERS990	6.50	5.85	5.27	4.74
ERS396	2.44	2.20	1.98	1.78	ERS784	6.50	5.85	5.27	4.74	ERS992	2.08	1.87	1.68	1.52
ERS397	2.52	2.27	2.04	1.84	ERS786	4.28	3.85	3.47	3.12	ERS994*	4.13	3.59	3.09	2.75
ERS398	2.56	2.30	2.07	1.87	ERS788*	3.69	3.21	2.76	2.45	ERS1003*	2.76	2.40	2.07	1.84
ERS399	2.40	2.16	1.94	1.75	ERS791	4.62	4.15	3.74	3.37	ERS1006*	0.95	0.85	0.75	0.65
ERS451	1.26	1.13	1.02	0.92	ERS797	4.88	4.39	3.95	3.56	ERS1009*	3.63	3.16	2.72	2.42
ERS453	1.22	1.10	0.99	0.89	ERS801	6.48	5.83	5.25	4.72	ERS1021*	1.05	0.95	0.83	0.73
ERS454	2.95	2.66	2.39	2.15	ERS803	14.48	13.03	11.73	10.56	ERS1029*	6.06	5.21	4.64	4.22
ERS457	1.10	0.99	0.89	0.80	ERS804	7.32	6.59	5.93	5.34	ERS1040*	1.26	1.11	0.96	0.83
ERS458	1.45	1.30	1.17	1.06	ERS810	6.48	5.83	5.25	4.72	ERS1041*	2.58	2.27	1.97	1.70
ERS459	1.73	1.56	1.40	1.26	ERS810A	5.44	4.90	4.41	3.97	ERS1042*	0.95	0.85	0.75	0.65
ERS461	8.64	7.78	7.00	6.30	ERS815	2.44	2.20	1.98	1.78	ERS1045*	0.95	0.85	0.75	0.65
ERS466	1.42	1.28	1.15	1.04	ERS820	8.20	7.38	6.64	5.98	ERS1047*	4.61	4.01	3.45	3.07
ERS500	16.00	14.40	14.40	14.40	ERS821	3.32	2.99	2.69	2.42	ERS1049*	2.58	2.27	1.98	1.70
ERS505	4.54	4.09	3.68	3.31	ERS822	7.44	6.70	6.03	5.42	ERS1050*	7.75	6.66	5.93	5.39
ERS506	1.31	1.18	1.06	0.96	ERS823*	3.06	2.63	2.21	1.92	ERS1052*	1.58	1.39	1.21	1.04
ERS508	12.20	10.98	9.88	8.89	ERS824*	5.40	4.64	4.13	3.76	ERS1053*	7.10	6.10	5.43	4.94
ERS513	7.60	6.84	6.16	5.54	ERS834	1.94	1.74	1.57	1.41	ERS1055*	4.46	3.84	3.42	3.11
ERS518	6.25	5.63	5.06	4.56	ERS844	11.56	10.40	9.36	8.43	ERS1058	6.83	6.15	5.53	4.98
ERS519	0.79	0.71	0.64	0.58	ERS852	7.96	7.16	6.45	5.80	ERS1060*	2.99	2.63	2.29	1.97
ERS521	25.90	23.50	23.50	23.50	ERS853	4.24	3.82	3.43	3.09	ERS1062	8.82	7.93	7.14	6.43
ERS522	24.50	22.05	22.05	22.05	ERS858	2.72	2.45	2.20	1.98	ERS1063*	8.35	7.26	6.61	6.02
ERS523	21.20	19.08	19.08	19.08	ERS859	2.92	2.63	2.37	2.13	ERS1075A*	5.02	4.32	3.84	3.50
ERS526	21.20	19.08	19.08	19.08	ERS863	4.30	3.87	3.48	3.13	ERS1080*	3.93	3.42	2.94	2.61
ERS528	23.28	20.95	20.95	20.95	ERS865	25.80	23.22	20.90	18.81	ERS1082*	2.41	2.12	1.85	1.59
ERS529	20.80	18.72	18.72	18.72	ERS867	8.40	7.56	6.80	6.12	ERS1085*	1.13	1.00	0.87	0.75
ERS531	25.90	23.31	23.31	23.31	ERS868	9.00	8.10	7.29	6.56	ERS1087*	1.65	1.46	1.27	1.09
ERS534	15.28	13.75	13.75	13.75	ERS871	11.50	10.35	9.32	8.38	ERS1089*	8.57	7.45	6.78	6.17
ERS535	24.95	22.46	22.46	22.46	ERS873	10.96	9.86	8.88	7.99	ERS1093*	4.90	4.26	3.66	3.26
ERS536	34.70	31.23	31.23	31.23	ERS874	10.04	9.04	8.13	7.32	ERS1096*	5.05	4.34	3.86	3.52
ERS537	18.36	16.52	16.52	16.52	ERS875	10.04	9.04	8.13	7.32	ERS1100*	0.95	0.85	0.75	0.65
ERS539	15.92	14.33	14.33	14.33	ERS912	3.84	3.46	3.11	2.80	ERS1101*	2.56	2.25	1.96	1.69
ERS540	27.50	23.35	23.35	23.35	ERS917	3.44	3.10	2.79	2.51	ERS1103*	0.95	0.85	0.75	0.65
ERS541	8.48	7.63	7.63	7.63	ERS918	3.60	3.24	2.92	2.62	ERS1104*	2.69	2.37	2.06	1.77
ERS542	21.80	19.62	19.62	19.62	ERS921	7.35	6.62	5.95	5.36	ERS1106*	0.95	0.85	0.75	0.65
ERS543	20.50	18.45	18.45	18.45	ERS922	2.31	2.08	1.87	1.69	ERS1116*	5.10	4.44	3.82	3.40
ERS544	19.95	17.96	17.96	17.96	ERS923	3.25	2.93	2.63	2.37	ERS1120	5.84	5.26	4.73	4.26
ERS547	23.85	20.25	20.25	20.25	ERS923D*	1.95	1.70	1.46	1.30	ERS1123*	5.83	5.01	4.46	4.06
ERS548	8.92	8.03	8.03	8.03	ERS925	10.00	9.00	8.10	7.29	ERS1124*	5.16	4.49	3.86	3.43
ERS551	1.92	1.73	1.56	1.40	ERS927D	2.40	2.16	1.94	1.75	ERS1126*	4.44	3.87	3.33	2.96
ERS552	1.01	0.91	0.82	0.73						ERS1127	8.16	7.34	6.61	5.95
ERS555	1.12	1.01	0.91	0.82						ERS1130*	5.15	4.43	3.94	3.59

*MCM is not able to supply this number.
A guaranteed substitute will be sent.



ERS[®] SEMICONDUCTORS

ORDER #	1-4	5-9	10-29	30-99
ERS1140*	2.58	2.27	1.98	1.70
ERS1142*	3.02	2.66	2.32	1.99
ERS1150*	5.46	4.75	4.08	3.63
ERS1154	6.70	6.03	5.43	4.89
ERS1155	8.66	7.79	7.01	6.31
ERS1159*	7.92	6.81	6.06	5.51
ERS1160	7.66	6.89	6.20	5.58
ERS1162*	3.68	3.20	2.75	2.45
ERS1165*	3.24	2.82	2.42	2.16
ERS1166*	4.95	4.31	3.70	3.30
ERS1167*	9.40	8.18	7.44	6.77
ERS1170	6.04	5.44	4.89	4.40
ERS1171*	1.24	1.09	0.95	0.82
ERS1172*	3.99	3.47	2.98	2.66
ERS1175	6.76	6.08	5.48	4.93
ERS1179*	1.83	1.61	1.40	1.20
ERS1180*	1.93	1.70	1.48	1.27
ERS1181*	4.81	4.14	3.68	3.35
ERS1185*	5.54	4.76	4.24	3.86
ERS1186*	3.73	3.24	2.79	2.48
ERS1187*	3.07	2.67	2.30	2.04
ERS1192*	2.56	2.25	1.96	1.68
ERS1199*	5.57	4.79	4.26	3.88
ERS1206*	3.39	2.95	2.54	2.26
ERS1210*	1.64	1.44	1.25	1.08
ERS1211*	5.10	4.39	3.90	3.55
ERS1213*	5.21	4.48	3.98	3.63
ERS1214*	3.33	2.90	2.49	2.22
ERS1215*	2.20	1.94	1.69	1.45
ERS1216*	5.08	4.37	3.89	3.54
ERS1217*	2.83	2.49	2.17	1.86
ERS1218*	10.83	9.42	8.57	7.80
ERS1219*	13.69	11.91	10.83	9.86
ERS1223*	1.51	1.33	1.15	0.99
ERS1224*	2.20	1.94	1.69	1.45
ERS1226*	1.89	1.66	1.45	1.24
ERS1227*	0.95	0.85	0.75	0.65
ERS1228*	2.38	2.09	1.82	1.56
ERS1231	4.30	3.87	3.49	3.14
ERS1232	4.84	4.36	3.92	3.53
ERS1233	19.56	17.60	15.84	14.26
ERS1234*	2.40	2.11	1.84	1.58
ERS1236*	3.34	2.90	2.50	2.22
ERS1237*	2.33	2.05	1.78	1.53
ERS1240*	8.56	7.45	6.78	6.17
ERS1242	4.60	4.14	3.73	3.35
ERS1245*	4.77	4.15	3.57	3.18
ERS1246*	3.88	3.37	2.90	2.54
ERS1248*	3.89	3.39	2.91	2.59
ERS1249*	4.32	3.26	3.23	2.88
ERS1254*	12.40	10.79	9.82	8.94
ERS1261*	5.43	4.72	4.06	3.61
ERS1263*	3.92	3.41	2.94	2.61
ERS1266*	6.69	5.75	5.12	4.66
ERS1268*	11.30	9.83	8.94	8.14
ERS1271*	4.33	3.73	3.32	3.02
ERS1273*	6.99	6.01	5.35	4.87
ERS1278*	3.91	3.40	2.93	2.60
ERS1281*	14.50	12.62	11.48	10.45
ERS1282*	13.32	11.59	10.54	9.59
ERS1285*	2.99	2.60	2.24	1.99
ERS1286*	3.20	2.78	2.39	2.13
ERS1288*	3.01	2.64	2.30	1.98
ERS1289*	5.28	4.59	3.95	3.52
ERS1290*	2.95	2.57	2.21	1.97
ERS1293*	4.51	3.92	3.37	3.00
ERS1300*	7.95	6.83	6.08	5.54
ERS1301*	7.64	6.57	5.85	5.32
ERS1308*	8.78	7.64	6.95	6.33
ERS1312*	9.02	7.85	7.14	6.50
ERS1313*	12.22	10.63	9.67	8.80
ERS1320*	9.12	7.93	7.22	6.57
ERS1321*	13.32	11.59	10.54	9.59
ERS1322*	20.56	18.09	16.46	15.15
ERS1327*	16.02	14.10	12.83	11.80
ERS1329*	16.16	14.22	12.94	11.90
ERS1330*	16.20	14.09	12.83	11.67
ERS1331*	17.72	15.59	14.19	13.06
ERS1334*	15.88	13.97	12.71	11.70
ERS1337*	23.94	21.07	19.17	17.64

ORDER #	1-4	5-9	10-29	30-99
ERS1338*	9.50	8.27	7.52	6.84
ERS1342*	19.95	17.56	15.98	14.70
ERS1344*	21.53	18.95	17.24	15.86
ERS1345*	18.57	16.34	14.87	13.68
ERS1346*	17.11	15.06	13.70	12.61
ERS1347*	16.78	14.76	13.43	12.36
ERS1361*	4.98	4.28	3.81	3.47
ERS1363*	2.78	2.44	2.13	1.83
ERS1364*	4.97	4.27	3.80	3.46
ERS1366*	4.65	4.04	3.48	3.09
ERS1367*	4.85	4.17	3.71	3.38
ERS1368*	4.71	4.05	3.61	3.28
ERS1370*	3.87	3.36	2.89	2.58
ERS1371*	5.02	4.32	3.84	3.50
ERS1372*	7.62	6.55	5.83	5.30
ERS1373*	5.03	4.32	3.85	3.50
ERS1374	8.36	7.52	6.77	6.09
ERS1376	11.18	10.06	9.05	8.15
ERS1377*	5.22	4.54	3.91	3.48
ERS1380*	5.50	4.79	4.12	3.66
ERS1381*	2.92	2.63	2.37	2.13
ERS1382*	4.48	3.90	3.35	2.98
ERS1383*	5.21	4.53	3.90	3.47
ERS1384*	2.95	2.56	2.21	1.96
ERS1387*	4.22	3.67	3.16	2.81
ERS1388*	2.98	2.59	2.23	1.98
ERS1389*	5.01	4.35	3.75	3.33
ERS1390*	4.60	4.01	3.44	3.07
ERS1391*	4.75	4.13	3.55	3.16
ERS1392*	4.36	3.75	3.34	3.04
ERS1393*	4.29	3.65	3.28	2.99
ERS1394*	5.20	4.47	3.98	3.62
ERS1395*	5.31	4.57	4.07	3.70
ERS1396*	5.50	4.79	4.12	3.66
ERS1397	15.84	14.26	12.83	11.55
ERS1398	8.07	7.26	6.54	5.88
ERS1399	7.50	6.75	6.07	5.46
ERS1403	17.80	16.02	14.42	12.98
ERS1404*	4.93	4.29	3.69	3.28
ERS1406*	6.46	5.56	4.95	4.50
ERS1409	7.69	6.92	6.23	5.61
ERS1410*	7.20	6.26	5.70	5.19
ERS1415	5.63	5.07	4.56	4.11
ERS1416*	6.80	5.85	5.20	4.74
ERS1417*	6.66	5.72	5.09	4.64
ERS1419*	5.95	5.12	4.55	4.14
ERS1423*	3.22	2.80	2.41	2.15
ERS1424*	3.30	2.87	2.47	2.20
ERS1425*	4.88	4.20	3.74	3.40
ERS1427*	4.09	3.56	3.06	2.73
ERS1428*	14.85	12.92	11.76	10.70
ERS1433*	2.95	2.60	2.26	1.95
ERS1435*	1.64	1.45	1.26	1.08
ERS1439*	4.66	4.01	3.57	3.24
ERS1440*	9.54	8.30	7.56	6.88
ERS1447*	3.85	3.35	2.80	2.56
ERS1450*	3.30	2.87	2.47	2.20
ERS1453*	2.79	2.43	2.09	1.86
ERS1455*	2.71	2.38	2.07	1.78
ERS1457*	1.51	1.33	1.16	1.00
ERS1460*	4.30	3.70	3.29	3.00
ERS1461*	2.76	2.40	2.07	1.84
ERS1463*	2.97	2.58	2.22	1.98
ERS1464*	2.80	2.47	2.15	1.85
ERS1465	3.14	2.73	2.35	2.09
ERS1466*	1.15	1.01	0.88	0.75
ERS1468*	2.26	1.99	1.73	1.49
ERS1469*	8.55	7.44	6.77	6.16
ERS1471*	5.00	4.35	3.74	3.53
ERS1472*	2.78	2.44	2.12	1.83
ERS1473*	8.30	7.22	6.57	5.98
ERS1474*	2.88	2.51	2.16	1.92
ERS1476*	3.93	3.42	2.94	2.62
ERS1477*	2.89	2.52	2.16	1.93
ERS1478*	3.53	3.07	2.64	2.35
ERS1480*	2.71	2.38	2.07	1.78
ERS1481*	2.56	2.26	1.96	1.69
ERS1482*	6.43	5.53	4.92	4.48

*MCM is not able to supply this number.
A guaranteed substitute will be sent.

ORDER #	1-4	5-9	10-29	30-99
ERS1483*	5.27	4.53	4.03	3.67
ERS1484*	3.82	3.33	2.86	2.55
ERS1485*	7.90	6.79	6.04	5.50
ERS1486*	4.59	3.95	3.51	3.20
ERS1488*	4.89	4.25	3.66	3.25
ERS1489*	3.32	2.89	2.48	2.21
ERS1490*	3.21	2.80	2.41	2.14
ERS1491*	4.30	3.74	3.22	2.86
ERS1493*	3.77	3.28	2.82	2.51
ERS1496	6.46	5.81	5.23	4.71
ERS1497*	2.12	1.86	1.62	1.39
ERS1498*	3.80	3.30	2.84	2.53
ERS1502*	2.20	1.93	1.68	1.45
ERS1511*	3.36	2.92	2.51	2.23
ERS1512*	2.48	2.18	1.90	1.63
ERS1513*	3.70	3.22	2.77	2.46
ERS1514*	2.29	2.01	1.75	1.51
ERS1515*	2.27	2.00	1.74	1.49
ERS1516*	2.25	1.98	1.72	1.48
ERS1518*	4.16	3.62	3.12	2.77
ERS1522*	4.69	4.08	3.51	3.12
ERS1523*	3.68	3.20	2.75	2.45
ERS1525*	3.01	2.64	2.30	1.98
ERS1529*	1.50	1.32	1.15	0.99
ERS1530*	2.68	2.36	2.05	1.77
ERS1533*	2.99	2.60	2.24	1.99
ERS1534	19.40	17.46	15.71	14.14
ERS1535*	5.36	4.61	4.10	3.73
ERS1538	4.59	4.13	3.72	3.35
ERS1541*	1.67	1.47	1.28	1.10
ERS1544*	6.22	5.35	4.76	4.33
ERS1545*	5.95	5.18	4.45	3.96
ERS1547	11.68	10.51	9.46	8.51
ERS1550	6.75	6.05	5.45	4.90
ERS1566	5.80	5.22	4.70	4.23
ERS1567	4.93	4.44	3.99	3.59
ERS1616	6.67	6.00	5.40	4.86
ERS1632	7.80	7.02	6.32	5.69
ERS1671*	9.95	8.66	7.88	7.17
ERS1676	3.66	3.30	2.97	2.67
ERS1743	17.70	15.93	14.34	12.90
ERS1751	8.50	7.65	6.89	6.20
ERS1900	4.95	4.31	3.70	3.30
ERS1901	2.20	1.98	1.78	1.60
ERS1903	1.81	1.63	1.47	1.32
ERS1905	1.52	1.37	1.23	1.11
ERS1906	3.95	3.56	3.20	2.88
ERS1908	1.38	1.25	1.12	1.01
ERS1909	1.52	1.37	1.23	1.11
ERS1911	7.45	6.71	6.03	5.43
ERS1913	6.05	5.45	4.90	4.41
ERS1914	5.14	4.62	4.16	3.74
ERS1915	5.58	5.02	4.52	4.06
ERS1916	4.60	4.14	3.73	3.35
ERS1917	2.68	2.41	2.17	1.95
ERS1919	4.90	4.41	3.97	3.57
ERS1920	5.01	4.51	4.06	3.65
ERS1923	4.90	4.41	3.97	3.57
ERS1924	4.60	4.14	3.73	3.35
ERS2000*	6.16	5.30	4.72	4.29
ERS2003*	4.05	3.53	3.03	2.70
ERS2004*	4.54	3.95	3.40	3.02
ERS2300	5.68	5.11	4.60	4.14
ERS2302	4.88	4.39	3.95	3.56
ERS2303	3.80	3.42	3.08	2.77
ERS2308	6.90	6.21	5.59	5.03
ERS2310	6.60	5.94	5.35	4.81
ERS2312	3.94	3.54	3.19	2.87
ERS2315	4.40	3.96	3.56	3.21
ERS2318	7.10	6.35	5.65	5.17
ERS2328	4.79	4.31	3.88	3.49
ERS2329	4.49	4.04	3.64	3.27
ERS4001*	1.13	1.02	0.90	0.78
ERS4007*	1.04	0.91	0.80	0.68
ERS4010*	2.14	1.88	1.64	1.41
ERS4011*	1.07	0.96	0.85	0.74
ERS4013*	1.14	1.03	0.90	0.79
ERS4015*	2.44	2.15	1.87	1.57
ERS4016*	1.15	1.01	0.88	0.76
ERS4020*	1.80	1.58	1.38	1.19



ORDER #	1-4	5-9	10-29	30-99
ERS4023*	1.22	1.09	0.96	0.84
ERS4025*	1.13	1.00	0.87	0.75
ERS4027*	1.73	1.52	1.33	1.14
ERS4040*	2.84	2.49	2.17	1.87
ERS4046*	2.96	2.54	2.18	1.94
ERS4050*	1.56	1.37	1.19	1.02
ERS4051*	1.10	0.96	0.84	0.72
ERS4060*	1.51	1.33	1.16	1.00
ERS4069*	1.13	1.02	0.90	0.78
ERS4071*	1.83	1.60	1.39	1.20
ERS4081*	1.22	1.09	0.96	0.84
ERS4520*	1.66	1.46	1.27	1.09
ERS4528*	2.93	2.55	2.19	1.95
ERS5002A	1.26	1.14	1.02	0.92
ERS5004	1.26	1.14	1.02	0.92
ERS5010	1.26	1.14	1.02	0.92
ERS5012	1.26	1.14	1.02	0.92
ERS5013	1.26	1.14	1.02	0.92
ERS5015A	1.26	1.14	1.02	0.92
ERS5024	1.26	1.14	1.02	0.92
ERS5027	1.26	1.14	1.02	0.92
ERS5035	1.26	1.14	1.02	0.92
ERS5036	1.26	1.14	1.02	0.92
ERS5068	1.47	1.32	1.19	1.07
ERS5069	1.47	1.32	1.19	1.07
ERS5070	1.47	1.32	1.19	1.07
ERS5071	1.47	1.32	1.19	1.07
ERS5072	1.47	1.32	1.19	1.07
ERS5077	1.47	1.32	1.19	1.07
ERS5079	1.47	1.32	1.19	1.07
ERS5080	1.47	1.32	1.19	1.07

ORDER #	1-4	5-9	10-29	30-99
ERS5081	1.47	1.32	1.19	1.07
ERS5084	1.47	1.32	1.19	1.07
ERS5089	1.47	1.32	1.19	1.07
ERS5093	1.47	1.32	1.19	1.07
ERS5100	1.47	1.32	1.19	1.07
ERS5121	1.74	1.57	1.41	1.27
ERS5127	1.74	1.57	1.41	1.27
ERS5130A	1.74	1.57	1.41	1.27
ERS5134	1.74	1.57	1.41	1.27
ERS5136	1.74	1.57	1.41	1.27
ERS5161	1.74	1.57	1.41	1.27
ERS5172	4.62	4.16	3.75	3.37
ERS5224	4.62	4.16	3.75	3.37
ERS5312	2.78	2.50	2.25	2.03
ERS5313	2.94	2.64	2.38	2.14
ERS5326*	4.60	4.25	4.25	4.25
ERS5332	1.34	1.20	1.08	0.97
ERS5351	7.95	7.16	6.44	5.80
ERS5400	0.69	0.62	0.56	0.50
ERS5401	0.84	0.76	0.68	0.61
ERS5402	0.90	0.81	0.73	0.65
ERS5404	1.00	0.90	0.81	0.73
ERS5405	1.86	1.67	1.50	1.35
ERS5410	2.82	2.53	2.28	2.05
ERS5418	2.14	1.93	1.74	1.56
ERS5424	3.59	3.23	2.90	2.61
ERS5425	11.99	10.79	9.71	8.74
ERS5448	5.04	4.54	4.08	3.67
ERS5455	1.07	0.96	0.87	0.78
ERS5457	1.57	1.41	1.27	1.14

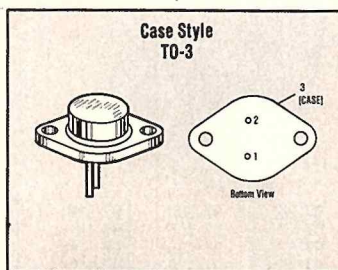
ORDER #	1-4	5-9	10-29	30-99
ERS5463	2.08	1.87	1.68	1.52
ERS5465	2.48	2.23	2.01	1.81
ERS5466	3.56	3.20	2.88	2.60
ERS5511	2.70	2.43	2.19	1.97
ERS5513	2.96	2.66	2.40	2.16
ERS5630	2.92	2.63	2.37	2.13
ERS5633	1.81	1.63	1.46	1.32
ERS5637	3.12	2.81	2.53	2.27
ERS5645	3.14	2.82	2.54	2.29
ERS5656	1.46	1.32	1.19	1.07
ERS5679	14.10	12.68	11.35	10.28
ERS5802	0.70	0.63	0.56	0.51
ERS5804	0.94	0.85	0.76	0.69
ERS5806	1.17	1.05	0.95	0.85
ERS5808	1.54	1.39	1.25	1.13
ERS5809	2.08	1.87	1.68	1.52
ERS6402	1.23	1.11	1.00	0.90
ERS7474	0.87	0.78	0.71	0.64
ERS8063	0.96	0.86	0.78	0.70
ERS8076	0.96	0.86	0.78	0.70
ERS8085	0.96	0.86	0.78	0.70
ERS8108	0.96	0.86	0.78	0.70
ERS8149	0.96	0.86	0.78	0.70
ERS8181	0.96	0.86	0.78	0.70
ERS8213	0.96	0.86	0.78	0.70
ERS8226	0.96	0.86	0.78	0.70
ERS8242	0.96	0.86	0.78	0.70
ERSHD-1	9.95	8.96	8.06	7.25
ERSHD-2	9.95	8.96	8.06	7.25
ERSHD-3	7.92	7.13	6.42	5.77
ERSHD-4	9.81	8.83	7.94	7.15

Voltage Regulator Selector Guide

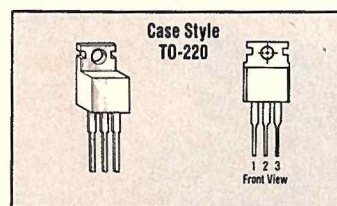
■ See ERS pages 197-201 for pricing

Order #	V Out (V)	V In (V) Min	Max	Io Max (A)	PD Max (W)
ERS309	5	7.5	35	1.5	20
ERS1914	12	14.1	35	1.5	15
ERS934	13.8	16.4	35	5	50
ERS1916	15	17.4	40	1.5	20
ERS1920	18	20.5	35	1.5	20
ERS1924	24	26.4	40	1.5	20
ERS970	1.2-33	3.7	35	3	30
ERS1913	-5	-7.5	-35	1.5	20
ERS1915	-12	-14.1	-35	1.5	15
ERS1919	-15	-17.4	-40	1.5	20
ERS1923	-18	-20.5	-35	1.5	15
ERS1911	-1.2,-37	-2.45	-40	1.5	20

Fixed		Adjustable	
Positive	Negative	Positive	Negative
1. VIN	1. GND	1. ADJ	1. ADJ
2. VOUT	2. VOUT	2. VIN	2. VOUT
3. GND	3. VIN	3. VOUT	3. VIN



Fixed		Adjustable	
Positive	Negative	Positive	Negative
1. VIN	1. GND	1. ADJ	1. ADJ
2. GND	2. VIN	2. VOUT	2. VIN
3. VOUT	3. VOUT	3. VIN	3. VOUT
Tab	Tab	Tab	Tab
Common to Pin 2	Common to Pin 2	Common to Pin 2	Common to Pin 2



Order #	V Out	V in (V)		Io Max	PD Max
	(V)	Min	Max	(A)	(W)
ERS960	5	7	35	1	15
ERS962	6	8	35	1	15
ERS964	8	10	35	1	15
ERS966	12	14	35	1	15
ERS968	15	17	35	1	15
ERS968	18	20	35	1	15
ERS972	24	26	40	1	15
ERS956	1.2-37	3.7	40	1.5	15
ERS961	-5	-7	-35	1	15
ERS963	-6	-8	-35	1	15
ERS965	-8	-10	-35	1	15
ERS967	-12	-14	-35	1	15
ERS969	-15	-17	-35	1	15
ERS959	-18	-20	-35	1	15
ERS971	-24	-26	-40	1	15
ERS957	-1.2-37	-3.7	-40	1.5	15

Electron Tubes

*Please Note: Tube prices are unstable and subject to change. Due to availability, manufacturers will vary.

Order #	(1-2)	(3-9)	(10-up)	Order #	(1-2)	(3-9)	(10-up)	Order #	(1-2)	(3-9)	(10-up)	Order #	(1-2)	(3-9)	(10-up)
1G3GTA	8.58	6.51	5.17	6DQ3	USE 6DT3			6LR6	26.30	20.88	17.54	12GN7A	16.19	12.29	9.75
1X2C	7.39	5.61	4.45	6DT3	18.68	14.18	11.25	6LU8	30.40	24.13	20.27	12HG7	USE 12GN7		
3HA5	5.63	4.27	3.39	6DW4	USE 6CJ3			6LX8	8.30	6.30	5.00	12HL7	11.62	8.82	7.00
3HM5	USE 3HA5			6EA8	5.10	3.87	3.08	6MH6	USE 6LF6			13GF7A	20.75	15.75	12.50
4LJ8	14.45	10.97	8.71	6FQ5A	6.72	5.10	4.05	6MJ6	USE 6JE6C			17BF11	6.02	4.57	3.63
5A54A	USE 5U4GB		16.80	6FQ7	7.06	5.36	4.25	6SN7GTB	6.23	4.73	3.75	17KV6A	16.54	13.13	11.03
5U4GB	25.20	20.00	16.80	6GH8A	3.55	2.69	2.14	6U8A	4.22	3.20	2.54	19CG3	14.11	10.71	8.50
6AQ5A	10.17	7.72	6.13	6GK5	USE 6FQ5			6U10	16.39	12.44	9.88	20LF6	35.38	29.72	26.89
6AU6A	4.98	3.78	3.00	6HA5	4.15	3.15	2.50	6V6GTA	7.26	5.51	4.38	21JZ6	16.62	13.19	11.08
6AW8A	5.82	4.42	3.51	6HB7	6.23	4.73	3.75	6X4	6.34	4.81	3.82	21LU8	16.72	12.69	10.07
6BA6	3.82	2.90	2.30	6HG5	USE 6AQ5A			7KY6	13.67	10.37	8.23	23Z9	15.19	11.53	9.15
6BL8	3.78	2.87	2.28	6HM5	USE 6HA5			8CG7	13.70	10.40	8.25	25C5	7.15	5.43	4.31
6BQ5	3.49	2.65	2.10	6HQ5	4.57	3.47	2.75	8FQ7	USE 8CG7			25CG3	11.19	8.49	6.74
6BZ6	USE 6JH6			6JA5	31.65	24.65	20.70	8LT8	11.20	8.50	6.75	30AE3	4.15	3.15	2.50
6CA7	16.19	12.29	9.75	6JE6C	31.50	25.00	21.00	11AF9	20.79	16.50	13.86	31LQ6	19.26	15.29	12.84
6CB6A	3.37	2.56	2.03	6JH6	5.32	4.04	3.21	11MS8	14.01	10.63	8.44	31LZ6	28.35	22.50	18.90
6C03	USE 6CG3			6JS6C	31.03	24.63	20.69	12AT7	4.57	3.47	2.75	33GY7A	17.00	12.91	10.24
6CE3	USE 6CG3			6JW8	6.85	5.20	4.13	12AU7A	3.74	2.84	2.25	35LR6	30.40	24.13	20.27
6CF6	USE 6CG3			6JZ8	17.65	13.40	10.64	12AX7A	4.98	3.78	3.00	36LW6	23.92	18.98	15.95
6CG3	14.53	11.03	8.75	6KD6	24.32	19.30	16.21	12BA6	6.32	4.79	3.81	36MC6	31.25	26.25	23.75
6CG7	USE 6FQ7			6L6GC	10.38	7.88	6.25	12BH7A	17.64	13.39	10.63	38HE7	USE 38HK7		
6CG8A	12.24	9.29	7.38	6LB6	27.38	23.00	20.81	12BV7	USE 12BY7			38HK7	22.84	18.13	15.23
6CJ3	11.41	8.66	6.88	6LN8	5.63	4.28	3.39	12BY7A	20.75	15.75	12.50	50C5	6.05	4.59	3.65
6CW5	4.86	3.69	2.93	6LQ6	USE 6JE6C			12DQ7	USE 12BY7			6550A	28.65	24.06	21.77
												7868	31.34	24.88	20.90

MCM kits will save you time and money! Each kit has been carefully engineered to include the most popular items used in the service of today's sensitive consumer electronic equipment. By purchasing these kits you will always have the parts you need, organized and at your fingertips, while saving money too!

VCR Idler Tire Kit

■ Save 36% off list price when you purchase this kit ■ Kit offers 150 of the most popular idler tire replacements ■ 15 different types including: RCA, Panasonic, Sanyo, Fisher, Sharp and Hitachi type tires ■ Manufactured to exact specifications ■ Durable utility case with cross-reference
■ Kit contains ten of each MCM part number:

32-560	32-650	32-660	32-710	32-720	32-750	32-945	32-952
32-645	32-655	32-705	32-715	32-745	32-940	32-950	

#102-001 \$52⁹⁵ (kit)

VCR Lamp Kit

■ Save 20% off list price when you purchase this kit ■ Kit has the most frequently used lamps and sensors used to repair major name brand VCRs such as Sharp, Fisher, RCA, Sanyo, Hitachi, etc. ■ Durable utility case with cross-reference
■ Kit contains:

MCM #	Qty	Description	MCM #	Qty	Description
25-235	15	Sensing lamp	32-635	10	Sensing lamp
25-240	10	Sensing lamp	32-785	10	Tape end sensor
25-245	5	Dial lamp	32-1010	15	Reel sensor
25-475	10	Infrared LED	32-1165	10	Tape end sensor
25-480	10	Infrared LED	32-1230	5	Sensing lamp

#102-002 \$89⁹⁵ (kit)

Zener Diode Kit

■ Save 30% off list price when you purchase this kit ■ All values rated at 1W

■ Kit contains ten of each:

3.3V (1N4728)	6.8V (1N4736)	10V (1N4740)	15V (1N4744)
5.1V (1N4733)	7.5V (1N4737)	11V (1N4741)	16V (1N4745)
5.6V (1N4734A)	8.2V (1N4738)	12V (1N4742)	18V (1N4746)
6.2V (1N4735A)	9.1V (1N4739)	13V (1N4743)	

#102-003 \$34⁹⁵ (kit)

Ceramic Fuse Kit

■ Save 36% off list price when you purchase this kit ■ Used for microwave and small appliance repair ■ Kit contains ten each of the following values: 5A, 10A, 15A, 20A, 25A, 30A

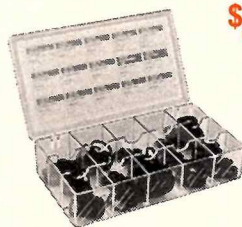
#102-004 \$18⁹⁵ (kit)

AGC/GMA Fuse Assortment Kit

■ Save 40% off list price when you purchase this kit ■ This kit contains popular fuses used in electronic repair ■ Kit contains ten each of the following values: AGC .5A, 1A, 1.5A, 2A, 2.5A, 3A, 4A, 5A, 6A, 10A, 15A; Ceramic 15A; GMA 1A, 1.5A, 2A, 3A, 4A, 5A

#102-005 \$19⁹⁵ (kit)

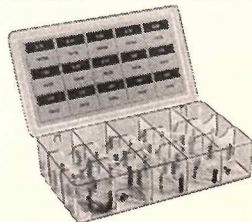
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\$30⁰⁰



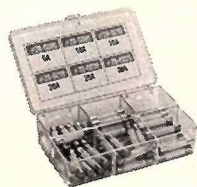
SAVE
\$21⁹⁰



SAVE
\$14⁷⁵



SAVE
\$10⁴⁵



SAVE
\$10⁰⁵



SAVE
\$34⁵⁰

Capacitor Kit

■ Save 58% off list price when you purchase this kit ■ Kit consists of 90 electrolytics, 30 different values, three of each type ■ Cabinet contains 15 compartments with dividers ■ Labels included ■ Values: 1μf/100V, 2.2μf/50V, 3.3μf/50V, 4.7μf/25V, 4.7μf/50V, 5μf/35V, 6.8μf/50V, 10μf/25V, 10μf/50V, 18μf/40V, 22μf/40V, 25μf/35V, 33μf/25V, 33μf/50V, 47μf/25V, 47μf/50V, 68μf/25V, 100μf/16V, 150μf/25V, 220μf/16V, 220μf/25V, 330μf/25V, 330μf/35V, 470μf/16V, 470μf/35V, 640μf/16V, 1000μf/16V, 1000μf/25V, 1500μf/25V, 2200μf/16V

#31-0520 \$24⁹⁵ (kit)

SAVE
\$27⁵⁵

IC Protector Kit



■ Save 41% off list price on original IC protectors used in many brands of VCRs and camcorders like JVC, RCA, Hitachi, Zenith and Sony

■ Kit contains the following:

Order #	Current (A)	Qty.	Order #	Current (A)	Qty.	Order #	Current (A)	Qty.
ICP-F10	.4	5	ICP-F50	.2	5	ICP-N20	.8	5
ICP-F15	.6	10	ICP-F75	2.7	5	ICP-N25	1	5
ICP-F20	.8	5	ICP-N5	.25	10	ICP-N38	1.5	5
ICP-F25	1	5	ICP-N10	.4	10	ICP-N50	2	5
ICP-F38	1.5	5	ICP-N15	.6	5	ICP-N75	2.7	5

#102-006 \$39⁹⁵ (kit)

SAVE
\$54⁵⁵

Surface Mount Resistor Kit



■ Save 58% off list price when you purchase this kit ■ 5% tolerance ■ 1/8 W

■ Contains 20 of each of the values listed below for a total of 1260 resistors:

97-20	97-300	97-910	97-2.7K	97-6.2K	97-15K	97-51K
97-47	97-360	97-1K	97-3K	97-6.8K	97-16K	97-68K
97-62	97-390	97-1.1K	97-3.3K	97-7.5K	97-20K	97-100K
97-75	97-470	97-1.2K	97-3.6K	97-8.2K	97-24K	97-120K
97-82	97-560	97-1.5K	97-3.9K	97-9.1K	97-27K	97-160K
97-100	97-620	97-1.6K	97-4.3K	97-10K	97-30K	97-180K
97-130	97-680	97-2K	97-4.7K	97-11K	97-33K	97-220K
97-180	97-750	97-2.2K	97-5.1K	97-12K	97-39K	97-470K
97-220	97-820	97-2.4K	97-5.6K	97-13K	97-47K	97-750K

#102-008 \$39⁹⁵ (kit)

SAVE
\$3¹⁰

Audio Lamp Kit



■ Save 12% off list price on this kit which features popular audio lamps used in the repair of amplifiers, tuners and tape decks

■ Contains five of each of the following values:

Order #	Description	Voltage	Current	Order #	Description	Voltage	Current
25-080	Fuse type	6V	250mA	25-485	Sub mini stereo indicator	6.3V	35mA
25-090	Fuse type	8V	250mA	25-490	Sub mini stereo indicator	12V	35mA
25-100	Fuse type	12V	150mA	25-495	Grain of wheat	6.3V	35mA
25-130	Sub miniature	6.3V	70mA	25-500	Grain of wheat	8V	35mA
25-140	Sub miniature	8V	70mA	25-505	Grain of wheat	12V	35mA
25-150	Sub miniature	12V	70mA				
25-160	Sub mini stereo indicator	8V	35mA				

#102-007 \$21⁹⁵ (kit)



▲ PYRAMID® Auto Electronics

Pyramid products are ideal for the auto installer who wants value-added products. This line of car stereo items includes amplifiers, equalizers, crossovers and accessories. See page 149 for details.



LONGSTAR® Learning Remote

The Longstar learning remote is one of the smallest and most economical learning remotes available today! For more details, see page 91.

#80-450.....\$39⁹⁵ (ea.)

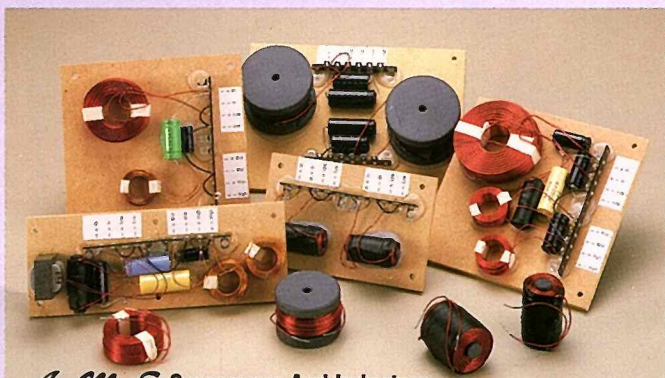


Chemtronics® E-Series Chemicals

Chemtronics E-Series™ are second-generation products, developed to allow users to phase-in environmentally acceptable chemicals now! When possible, ozone depleting CFCs have been eliminated or reduced with EPA-designated substitutes. For Chemtronics E-Series product listings, see page 56.

A M S Enterprises

AMS Enterprises has been in the business of selling high quality audio products for the past 14 years. MCM Electronics is proud to offer AMS enclosures, crossover networks, and inductors that reflect years of refinement and dedication to quality in audio. Combine these AMS components with the speakers and accessories shown in this catalog to produce audio systems of incomparable value.



A M S Crossovers And Inductors

AMS crossovers are designed for high efficiency and precise performance. Only the finest components are used to yield excellent high frequency characteristics and high power handling. AMS inductors use large gauge wire for low resistance and efficient power transfer. See pages 124 and 125 for further information.



A M S Enclosures

These handsome cabinets are finished with genuine oak veneer and come with dark brown fabric grills. They are made of 3/4" acoustic grade particle board for deep and solid bass without coloration. The 12" three-way enclosure is available in walnut veneer. AMS is now offering an impressive three-way Tower Cabinet. See page 120 for our full line and specifications.



HIGHLIGHTS

PANA VISE

Panavise is known nationwide as a manufacturer of quality work-holding devices. They utilize a unique "split-ball" design that enables a vise head to be positioned through three planes with the turn of a knob. By mixing and matching heads, bases and accessories, there's nearly an endless choice of configurations to choose from. For product selection, see page 43.

NEW



UNGAR

Electronic Service Aids

Ungar electronic service aids include ergonomically designed handtools, polystyrene flux, solvent dispensers and a convenient solder dispenser. See page 35 for product listings.

NEW



FLUKE

Since 1949, Fluke has been manufacturing high quality, American made measurement instruments for electronic service and repair customers. Fluke has earned respect around the world as one of the leaders in high-technology instrumentation. Fluke manufactures a wide variety of DMMs with specialized features and functions for a broad range of applications. In addition, Fluke also offers high quality test leads and accessories to further enhance their test equipment line. For product listings, see page 25.

NEW



MCM ELECTRONICS

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